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CLASSIFIED DIRECTORY

OF

CURRENT ADVERTISEMENTS IN "ENGINEERING."

THE following Directory is published to meet the requirements of those who may wish to ascertain at a glance the names of makers of any article advertised in ENGINEERING; for detailed particulars, the advertisements of the Firms indicated in this list may readily be found on reference to the alphabetical index of names published every week on page v. of our advertisements. If the advertisement sought for should not be found in the Number of ENGINEERING in which search is first made, it will probably be in the Number immediately preceding or following, many advertisements being inserted every other week only, whilst some few appear at longer intervals.

The DIRECTORY will be published as often as occasion may require, but its appearance is not guaranteed at any stated period, and as it is desired to make it serviceable and reliable, the Publisher will feel obliged by advertisers pointing out any errors or omissions that may be noticed.

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Agricultural Machinery.

Aveling & Porter .. .. .. Rochester
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Fowler, J., & Co. .. .. .. Leeds
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hornsby & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited.. Gainsborough
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Page, E., & Co. .. .. .. Bedford
Ransomes, Head & Jefferies .. Ipswich
Reading Ironworks Co., Limited Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln

Air Compressors.

Adamson, D., & Co. .. .. Dukinfield, Manchester
Brotherhood, P. .. .. .. Belvedere Road, S.E.
Carrick & Wardale .. .. Gateshead
Clayton, Howlett & Venables .. Harrow Road, W.
Coles, H. J. .. .. Bunnar Street, S.E.
Hathorn, Davey & Co. .. .. Leeds
Hartley & Armour Brothers .. Stoke-on-Trent
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Oliver & Co., Limited .. .. Chesterfield
Scott, George, & Son .. .. 44, Christian St., London, E
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thwaites Brothers.. .. .. Bradford
Walker Brothers .. .. .. Wigan
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.

Arbitrators.

Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Asbestos Goods.

Bell, John .. .. Asbestos Works, Southwark, S.E.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Auctioneers.

Kirk, W., Price & Goulty .. Albert Square, Manchester

Bag Making Machinery.

Bumsted, F. D. .. .. .. Hednesford, Staffs.

Bars (Steel and Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Landore-Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co. .. .. .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent
Steel Co. of Scotland .. .. Glasgow
West Cumberland Iron & Steel Co. .. .. Wokington

Belts (Driving).

Binney & Son (Linen) .. .. Catherine St., City Rd., E.C.
Fleming, T., Son & Co. .. .. West Grove Mill, Halifax
Gandy, M. .. .. Liverpool
Hepburn & Gale, Limited .. .. Long Lane, Southwark
I. R. G. P. & T. Works Co., Ltd. Silvertown, Essex
Lancashire Patent Belting and Hose Co. .. .. Strangeways, Manchester
McIntosh, Peter, & Sons .. .. 129a, Stockwell St., Glasgow
Moseley, David, & Sons .. .. Ardwick, Manchester
Norris, S. E., & Co. .. .. 56, High Street, Shadwell, E.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Patent Anhydrous Leather Co. Portsmouth
Reddaway, F., & Co. .. .. Pendleton, Manchester
Sampson & Co .. .. Cross Street, Manchester
Webb & Son.. .. .. .. Combs Tannery, Stowmarket
White, John, & Son .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Bleaching Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester
Musgrave, John, & Sons .. .. Bolton

Blowers.—*(See Fans.)*

Boilers (Steam).

Abbott & Co. .. .. .. Newark-on-Trent
Adamson, D., & Co. .. .. Dukinfield, near Manchester
Adamson, Joseph, & Co. .. .. Hyde, near Manchester

Boilers (Steam).—*Continued.*

Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Appleby Brothers .. .. .. East Greenwich, S.E.
Babcock & Wilcox Co. .. .. 107, Hope Street, Glasgow
Barrow Shipbuilding Co., Ltd... Barrow-in-Furness
Beesley & Sons .. .. .. Barrow-in-Furness
Bellamy, John .. .. .. Byng Street, Millwall, E.
Belleville, J., & Co. .. .. à St. Denis, Seine
Bellias, G. E., & Co. .. .. Ledsam St. Works, Birmingham
Blake, J. .. .. Britannia Works, Newton Heath, Manchester
Bodley Brothers & Co. .. .. Exeter
Bone, F. G. .. .. Long Lane, Bermondsey
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Burnet, L., & Co. .. .. .. Govan, Glasgow
Burrell, C., & Sons .. .. Thetford
Chaplin, Alex., & Co. .. .. Cranston Hill Engineering Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Copeland, J. & Co. .. .. Dobbie's Loan, Glasgow
Daglish, R., & Co. .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. Sheffield
Fawcett, Thomas C. .. .. Manor Road, Leeds
Fernihough, John, & Sons .. Stalybridge, Lancashire
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons, Limited .. Leiston Works, Suffolk
Goodwin, J., & Co. .. .. Motherwell, N.B.
Grange Iron Co., Limited .. Durham
Hall, J. & E. .. .. .. Dartford, Kent
Hanna, Donald & Wilson .. Paisley, N.B.
Hardingham, G. G. M. .. .. 191, Fleet Street, London, E.C.
Hartley & Sugden, Limited .. Halifax
Hawkesley, Wild & Co. .. .. Sheffield
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hornsby, R., & Sons, Limited .. Grantham
Horton, J. & W. .. .. .. Smethwick, near Birmingham
Isca Foundry & Engineering Co. Newport, Mon.
Lane & Reynolds .. .. .. Cranbrook St., Old Ford Rd., E.
Lane, Howard, & Co. .. .. Palmerston Buildings, Old Broad Street, E.C.
Leeds Forge Co. .. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
Lumby, E., Son & Wood.. .. West Grove Works, Halifax
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Oldham Boiler Works Co. .. Oldham
Olrick, L., & Co. .. .. .. 27, Leadenhall Street, E.C.
Patent Steam Boiler Co... .. Heneage Street, Birmingham
Penman & Co. .. .. .. 377, Dalmarnock Rd., Glasgow
Piggott, Thos., & Co. .. .. Springhill, Birmingham
Plenty & Son .. .. Eagle Ironworks, Newbury, Berks
Reading Ironworks Co., Limited Reading
Robey & Co. .. .. Lincoln
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Glasgow
Russell, Geo. & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Lincoln
Scriven & Co. .. .. .. Marsh Lane, Leeds
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Vosper & Co. .. .. .. Portsmouth
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Watt, Jas., & Co. .. .. .. 90, Leadenhall Street, E.C.
Welford Brothers .. .. .. Sunderland
Wilson, J. H., & Co. .. .. Sandhills, Liverpool
Wilson, Wm. .. .. Lilybank Boiler Works, Glasgow
Wood Brothers .. .. .. Valley Ironworks, Sowerby Bridge

Boiler Cleaners.

Nelson, Horatio .. .. .. 90, Worship St., London, E.C.

Boiler Manholes.

Galloway, W. & J., & Sons .. Manchester
Leeds Forge Co. .. .. .. Leeds
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow

Boiler Furnaces.

Leeds Forge Co., Limited .. Leeds

Bolts, Rivets, Nuts, Screws, &c.

Clyde Rivet Works Co. .. .. Glasgow
Galloway, W. & J., & Sons .. Manchester
Ibbotson Bros. & Co., Limited .. Sheffield
Mercer, E. .. .. Hollinwood, Manchester

Brakes (Railway)

Westinghouse Brake Co... .. Canal Road, King's Cross, N.

Brass Founders and Brass Finishers.

Billington & Newton .. .. Longport, Staffordshire
Bodley Brothers & Co. .. .. Exeter
Cockshott & Jowett .. .. Bradford
Dewrance & Co. .. .. .. 138, Great Dover Street, S.E.
Hughes, J. & J. .. .. .. Birmingham
Hunter & English .. .. .. Bow, E.
Neill & Son .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Storey, I., & Sons .. .. .. Knott Mill, Manchester
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Bread-Making Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Pfleiderer, Paul .. .. .. 86, Upper Ground Street, S.E.

Brewery and Distillery Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hunter & English .. .. .. Bow, London, E.
Woods, H., & Co. .. .. .. Salford, Manchester

Brick and Tile Making Machinery.

Boulton, W. .. .. Burslem, Staffordshire
Clayton, Howlett & Venables .. Harrow Road, London
Fawcett, Thos. C. .. .. .. Manor Road, Leeds
Middleton, Thos., & Co. .. .. Lemon Street, Southwark, S.E.
Page, E., & Co .. .. .. Victoria Ironworks, Bedford
Patent Brick Machine Co. .. Middlesbro'-on-Tees
Whitehead, John, & Co... .. Preston, Lancashire

Bricks.

Burham Brick, Lime, & Cement Co... .. .. Nicholas Lane, E.C.
Farnley Iron Co., Limited .. Farnley, near Leeds
Kershaw & Pole .. .. .. 1, Cullum Street, E.C.

Bridge Foundation Cylinders.

Hanna, Donald & Wilson .. Paisley
Stockton Forge Co. .. .. Stockton-on-Tees

Bridges.

Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Clauson, Charles .. .. .. 39, Lombard Street, E.C.
De Bergue & Co., Limited .. Manchester
Goodwin, J., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley
Ianson, C., Son, & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Walker Brothers .. .. .. Wigan

Buffers.

Ibbotson Bros. & Co., Limited.. Sheffield
Jones, — .. .. 262, Gresham House, Old Broad Street, E.C.
Midland Railway Carriage and Wagon Co., Limited .. Abbey Works, Shrewsbury
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.
Turton, T., & Sons .. .. Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy, John .. .. .. Byng Street, Millwall, E.

Cables (Electric Light, Telegraph and Telephone).

Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Carriage (Railway) Builders.

Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Falcon Engine and Car Works, Limited .. .. Loughborough
Metropolitan Railway Carriage and Wagon Co., Limited .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co. Limited .. .. Abbey Works, Shrewsbury

Castings (Iron).

Bodley Brothers & Co. .. .. Exeter
Bowling Iron Co., Limited .. Bradford
Carrick & Wardale .. .. Gateshead
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Clayton, Howlett & Venables .. Harrow Road, London, W.
Cockshott & Jowett .. .. Thornton Road, Bradford
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodwin, J., & Co... .. .. Motherwell, N.B.
Harper & Co. .. .. .. Aberdeen
Hind, H., & Son .. .. .. Nottingham
Hunter & English .. .. .. Bow, E.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Macfarlane, Walter, & Co. .. Possilpark, Glasgow
McCulloch, T., & Sons .. .. Kilmarnock
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Tinsley, Eliza .. .. .. Greatbridge, Staffordshire

Castings (Malleable Iron).

Palmer, W. R., Limited .. .. Bagot St. Foundry, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Castings (Steel).

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bowling Iron Co., Limited .. Bradford
Brown, Bayley, Dixon & Co. .. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Hadfield Steel Foundry Co. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Landore-Siemens Steel Co. .. Landore, South Wales
Osborn, S., & Co. .. .. .. Sheffield
Reichwald, A. .. .. Newcastle-on-Tyne
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, John, & Sons .. .. Newburn Steelworks, Newcastle-on-Tyne
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, Ltd., The Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Cement.

Burham Brick, Lime and Cement Co., Limited .. .. Nicholas Lane, E.C.
Francis & Co. .. .. .. Vauxhall, S.W.
Francis, C., Son & Co. .. .. 17, Gracechurch Street, E.C.
Greaves, Bull & Lakin .. .. Warwick
Rugby Portland Cement Co. .. Rugby, Warwickshire
Wouldham Cement Co. .. .. 39, Lime Street, E.C.

Chains and Cables.

Hodgkinson & Co., Limited .. Manchester
Pickering, Jthn. .. .. .. Stockton-on-Tees
Whitehouse & Co. .. .. .. Tipton, Staffordshire
Wright, Jos. & Co. .. .. .. Tipton, Staffordshire

Chemical Works (Plant for).

Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire.
Grange Iron Co., Limited .. Durham
Piggott, Thos., & Co. .. .. Birmingham

Clutches (Friction).

Bagshaw, J., & Sons .. .. Batley
Mather & Platt .. .. .. Salford Ironworks, Manchester

Coal Cutting Machines.

Grange Iron Co., Limited .. Durham

Coal Merchants.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield

Coke Ovens.

Jameson Patent Coking Co. .. St. Nicholas Chambers, Newcastle

Colliery Plant.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Woods, H., & Co. .. .. .. Salford, Manchester

Compasses.
Negretti & Zambra .. .. Holborn Viaduct, E.C.

Condensers (Fresh Water).
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Suffield & Brown .. .. .. James St., Commercial Rd. E.

Condensers (for Steam Engines).
Morton, Alexr., & Thomson .. 96, Buchanan Street, Glasgow

Coppersmiths.
Birmingham Battery & Metal Co. Birmingham
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Cotton Presses.
Piggott, Thos., & Co. .. .. Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Couplings (Railway).
Roger, Robert, & Co. .. .. Stockton-on-Tees
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.

Cranes, Travellers, Winches, &c.
Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Balmforth, Wm., Executors of (Loco. Steam) .. .. .. Rodley, near Leeds
Bowser, W., & Son .. .. .. Great Wellington St., Glasgow
Butters Brothers .. .. .. 83, Hope Street, Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Fielding & Platt .. .. .. Gloucester
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, Jthn. .. .. .. Stockton-on Tees
Priestman Brothers .. .. Hull
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Shirlaw, A., & Co... .. .. Berkley Street, Birmingham
Smith, Thos. .. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Acme Works, Cardiff
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Disincrustants.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Hannay's Marine Appliances Co., Limited .. .. 67, Great Clyde Streeet, Glasgow
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Clark, Bunnett & Co., Limited .. Rathbone Place, W.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath

Drying Machines for Textile Materials.
Smith & Johnston.. .. .. Paisley Road, Glasgow

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Gosling, Robert, & Co. .. .. Hatton Court, Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lowcock, A... .. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Chamberlain & Hookham, Ltd... Birmingham
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Gerard & Co., Limited .. .. 82, Hatton Garden, E.C.
Hartnell, W. .. .. Park Row, Leeds
Johnson & Phillips .. .. .. 14, Union Ct., Old Broad St., E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons.. .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria St., E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno., & Co. .. .. .. Albert Engine Works, Leith
Dewrance, John, & Co. .. .. 158, Great Dover Street, S.E.
Galloway, W. & J., & Sons .. Manchester
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street. E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited.. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. .. Hyde, near Manchester
Neil, W., & Son .. .. .. St. Helen's Junction, Lanc.
Ormerod, Grierson & Co... .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Walker Brothers .. .. .. Wigan

Engines (Fire).
Rose, W., & Co. .. .. .. Deansgate, Manchester

Engines (Gas).
Andrew, J. E. H., & Co... .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros., Limited .. .. Manchester
Muller, H. L. .. .. .. Birmingham
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Victor Gas Engine Co. .. .. 72, Whitechapel, Liverpool

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth, Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. Glasgow
Decauville, Aîné .. .. .. Petit-Bourg, (Seine et Oise), France
Falcon Engine & Car Works, Ltd. Loughborough
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co... .. .. 26, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works.. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons .. .. Thetford
Cran, John, & Co. .. .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Wood Brothers .. .. .. Valley Ironworks, Sowerby Bridge, Yorkshire
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. & St. Denis, Seine
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. R. .. .. .. Wellingborough
Ransomes, Head & Jefferies .. Ipswich
Reading Ironworks Co. Ltd. .. Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. .. Belper
Turner, E. R. & F. .. .. .. St. Peter's, Ipswich

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan.. .. .. Sentinel Works, Glasgow
Barrows & Stewart .. .. Banbury
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bunnett, F. D. .. .. .. Hednesford, Staffs.
Carrick & Wardale .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. .. Barrhead
Coles, H. J... .. .. .. Sumner Street, S.E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Fawcett, Thomas, C. .. .. Manor Road, Leeds
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co., Limited .. Durham

Engines (Stationary).—*Continued.*
Hanson, Wm. .. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Heenan & Froude .. .. .. Manchester
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lane & Reynolds .. .. .. Cranbrook St., Old Ford Rd., E.
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited.. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son.. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Head & Jefferies .. Ipswich
Robey & Co... .. .. .. Linco'n
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Eagle Ironworks, Belper
Smith & Johnston.. .. .. Paisley Road, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Welford Bros. .. .. .. Sunderland
Willans & Robinson .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Woods, H. & Co. .. .. .. Manchester

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Son.. .. .. Thetford
Clayton & Shuttleworth.. .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Cattell, A. S., & Co. .. .. 17, Bear Alley, Farringdon Street, E.C.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln

Fans and Blowers.
Allday, Wm., Sons, & Co. .. Birmingham
Capell, R. A. .. .. 42, Cadogan Street, Glasgow
Donald, J., & Sons .. .. .. Bermondsey, S.E.
Donkin, B., & Co... .. .. Bon Accord Engine Works, Glasgow
Drysdale & Co. .. .. .. Durham
Grange Iron Co., Limited .. Kilmarnock
McCulloch, T., & Sons .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street. E.C.
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Suffield & Brown .. .. .. James Street, Commercial Road, East, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wood, Hamilton & Co. .. .. Salford, Manchester
Wright, Jos., & Co. .. .. Tipton, Staffordshire

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons .. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co... .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Firebars.
Patent Diagonal Rocking Fire-Bar Co. .. .. 259, Gresham House, E.C.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 1, Cullum Street, E.C.

Flexible Shafts.
Bolling & Lowe .. .. .. 2, Laurence Pountney Hill, E.C.

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. Gloucester

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd... Sheffield
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Landore Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co. .. .. .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co... .. .. Sheffield
Reichwald, A. .. .. .. Newcastle-on-Tyne
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, J., & Son. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Körting Brothers.. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Etna Works, Smethwick, Birmingham
Ianson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Tomey & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Salter, Geo., & Co... .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co... .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.

Glass Machinery (Plate)
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N.

Governors (Engine).
Blair, George .. .. .. 32, Queen Street, Glasgow
Duncan Bros. (Taite's Electric).. 32, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Kilblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Gibbs, R. R. .. .. .. St. James' Heating Works, Mill Street, Liverpool
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of).. Rodley, near Leeds
Bowser & Son .. .. .. Great Wellington St., Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works Glasgow
Coles, H. J. .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipe (Flax).
Richards & Co. .. .. .. Aberdeen

Hydraulic Machinery.
Adamson, D., & Co. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. 8, Buckingham Street, W.C.
Beck & Co., Limited .. .. 130, Great Suffolk Street, Southwark, S.E.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W

Hydraulic Presses.

Bessemer, Henry, & Co., Limited .. Sheffield
Carrick & Wardale .. .. Gateshead-on-Tyne
Coles, H. J. .. .. .. 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Middleton, Robert .. .. Sheepscar Foundry, Leeds.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Woods, H., & Co. .. .. .. Salford, Manchester

Hydrokineter.

Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow

Ice Making Machines.

Piggott, T., & Co. .. .. .. Springhill, Birmingham

India Rubber Goods.

Angus, Geo., & Co. .. .. Newcastle-on-Tyne
Harburg India Rubber Comb Co. 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited Silvertown, Essex
Macfellan, George, & Co. .. Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. Edinburgh
Star Rubber Co., The .. .. 131, West Regent St., Glasgow

Indicators (Steam Engine).

Hannan & Buchanan .. .. 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) 65, Queen Victoria Street, E.C.

Injectors.

Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Gresham & Craven .. .. Manchester
Hancock Inspirator Co. .. .. 108, Upper Thames St., E.C.
Holden & Brooke .. .. .. 8t. Simon Works, Salford
Korting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Malan, C. S. .. .. .. 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. .. Nottingham
Patent Exhaust Steam Injector Co., Limited .. .. .. 4, St. Ann's Square, Manchester
Schaffer & Budenburg .. .. 8t. Mary Street, Manchester

Insurance Companies.

Employers' Liability Assurance Corporation, Limited .. .. 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited .. .. .. 17, Queen Victoria Street, E.C.

Iron Buildings.

Clark, Bunnett & Co., Limited .. Rathbone Place, W.
Davies Brothers & Co. .. .. Crown Iron Works, Wolverhampton
Davies, M. H. .. .. .. Grange Rd., Bermondsey, S.E.
Dixon, I. .. .. Windsor Ironworks, Liverpool
Lysaght, John, Limited .. .. Bristol
Macfarlane, Walter, & Co. .. Possil Park, Glasgow
Morewood & Co. .. .. .. Soho, Birmingham
Morton, F., & Co., Limited .. Naylor St. Ironworks, Liverpool

Iron and Steel Works (Plant for).

Adamson, D., & Co. .. .. Dukinfield, Manchester
Davey, Bros., Limited .. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodwin, James, & Co. .. .. Ardrossan, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Thwaites Bros. .. .. .. Bradford
Walker Bros. .. .. .. Wigan
Walker, T., & Co. .. .. .. Leeds
Whitwell, W. (Stoves) .. .. Stockton-on-Tees
Woods, H., & Co. .. .. .. Salford, Manchester

Jacks (Lifting).

Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. .. Berkley Street, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Keys and Pins.

Mills, Jas. (Executors of) .. Bredbury, near Stockport
Smith, H. Ford .. .. .. Seddon St., Salford, Manchester

Lamps.

Barnett & Foster .. .. .. 25a, Eagle Wharf Road, N.

Launches and Yachts.

Burnet, L., & Co. .. .. .. Govan, Glasgow
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Cran, J., & Co. .. .. .. Albert Engine Works, Leith
Des Vignes, G. F. G .. .. Chertsey
Edwards & Symes .. .. .. Wharf Rd., Cubitt Town, E.
Forrestt & Son .. .. .. Limehouse, E.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hayes, Ed. .. .. Stony Stratford
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Miller & Tupp .. .. .. Middle Mall, Hammersmith
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Yarrow & Co. .. .. .. Poplar, E.

Laundry Machines.

Manlove, Alliott, Fryer & Co. .. Nottingham

Leather Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Stothert & Pitt, Limited .. Bath

Letter Files.

Cameron, T., Amberg & Co. .. 27, Little Britain, London, E.C.

Lifts.

Coles, H. J. .. .. 89, Sumner Street, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Hanson, W. .. .. Bradford
Hunter & English .. .. .. Bow, E.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.

Kell, Thos., & Son .. .. .. 40, King Street, Covent Garden, W.C.

Locomotive Details.

Storey, I., & Sons .. .. .. Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.

Bell, J. .. .. Asbestos Works, Southwark, S.E.
Bliven's American Lubricating Cream .. .. 23, Brunswick St., Liverpool
Bradford, J., & Sons .. .. Liverpool
Crane, P. Moir, & Co., ... Bank Street, Manchester
Engelbert & Co. .. .. .. 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. Battersea, S.W.
Ragosine & Co. .. .. .. 7, Idol Lane, E.C.

Lubricators.

Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Empire Lubricator Co. .. .. Great Bridgewater Street, Manchester
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Nettlefolds, Limited .. .. Birmingham
Trier Brothers .. .. .. 19, St. George St., Westminster
Whitehouse & Co. .. .. .. Tipton Hall Chain Works, Staffordshire

Machine Tools.

Anderson & Gallwey .. .. 8, Buckingham Street, W.C.
Archdale, Jas., & Co. .. .. Ledsam Street, Birmingham
Ashham Bros. & Wilson, Ltd. .. Sheffield
Asquith, W. .. .. Halifax
Barlow, H. B., & Co. .. .. Cornbrook Works, Manchester
Berry, F., & Sons .. .. .. Calder Ironworks, Sowerby Bridge
Berry, H. .. .. Croydon Works, Hunslet, Leeds
Booth, Geo., & Co. .. .. Halifax
Butterfield, F. & J., & Co. .. Keighley, Yorkshire
Cameron, John .. .. .. Oldfield Road Ironworks, Salford
Churchill, C., & Co. .. .. Cross Street, Finsbury, E.C.
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited .. Manchester
Dron & Lawson .. .. .. Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. .. .. Crown Works, Booth Town, Halifax
Easterbrook, Alcard & Wild .. Sheffield
Fielding & Platt .. .. .. Gloucester
Galloway, W. & J., & Sons .. Manchester
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Heap, Joshua, & Co. .. .. Ashton-under-Lyne
Kendall & Gent .. .. .. Victoria Works, Manchester
Lang, J., & Sons .. .. .. Johnstone, N.B.
Lee, Howl, Ward & Howl .. Tipton, Staffordshire
Lee & Hunt .. .. Arkwright Works, Manchester
Loudon Bros. .. .. Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
McArthur, A., & Son .. .. Johnston, N.B.
Muir, Win., & Co. .. .. .. Sherbourne Street, Manchester
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Pitt Bros. .. .. Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Scott Bros. .. .. West Mount Ironworks, Halifax
Scriven & Co. .. .. .. Leeds Old Foundry, Marsh Lane Leeds
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. .. .. Leeds
Shirlaw, A., & Co. .. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsall Lane, Salford, Manchester
Smith & Willshaw .. .. .. Halifax
Tangyes Machine Tool Co., Ltd. Soho, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Widdowson, J. H. .. .. .. Ordsall Lane, Salford
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Maize Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.

Archbutt, J. & W. E. .. .. Westminster Bridge Road, Lambeth, S.W.
Gotz, J. R. .. .. 19, Buckingham Street, W.C.
Negretti & Zambra .. .. .. Holborn Viaduct, E.C.
Stanley, W. F. .. .. .. Great Turnstile, Holborn, W.C.

Metals (Phosphor, Alloys, &c.).

Billington & Newton .. .. Longport, Staffordshire
Cockshott & Jowett .. .. 145, Thornton Road, Bradford
Dick, Alex. .. .. 110, Cannon Street, E.C.
Evans, James, & Co. .. .. Gaythorn, Manchester
Hartmann, G. .. .. .. 16, Great St. Helen's, E.C.
Hughes, J. & J. .. .. .. Woodcock Street, Birmingham
Phosphor Bronze Co., Limited .. Sumner Street, S.E.

Meters.

Manchester Water Meter Co., Limited .. .. .. Ardwick, Manchester

Mill Gearing, Shafting, &c.

Ashham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bodley, Bros., & Co. .. .. Exeter
Brown, Bayley, Dixon & Co. .. Sheffield
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Co. .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Salford
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, John, & Sons .. .. Bolton
Reichwald, A. .. .. .. Newcastle-on-Tyne
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Spring Hill, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Tinsley, Eliza .. .. .. Great Bridge, Staff.
Yates & Co. .. .. Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).

Carter, J. H. .. .. 82, Mark Lane, E.C.
Clayton & Shuttleworth .. .. Lincoln
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Son .. .. Kilmarnock
Norman, J., & Co. .. .. .. Keppochill Engine Works, Glasgow
Ransomes, Head, & Jefferies .. Ipswich
Ruston, Proctor, & Co. .. .. Lincoln
Turner, E. R., & F. .. .. Ipswich

Mills (Paint, Oil, Mortar, &c.).

Butters Brothers .. .. .. Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) Manchester
Rose, Downs, & Thompson .. Hull
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Spencer & Co. .. .. .. Melksham, Wilts
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Mining Machinery.

Ashham Bros. & Wilson, Ltd. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R. & Co. .. .. .. St. Helens, Lanc.
Hathorn, Davey & Co. .. .. Leeds
Jordan, T. B., Son & Commans. .. 52, Gracechurch Street, E.C.
Robey & Co. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Walker, Bros. .. .. .. Wigan

Non-Conducting Compositions.

Anderson, D., & Son, Limited .. Lagan Felt Works, Belfast
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Haarke, A., & Co. .. .. .. 21, Lime Street, E.C.
Keenan, M. .. .. Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. .. .. .. Gray Street, Commercial Rd., E.

Nuts (Finished).

Mercer, Ed. .. .. Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.

Kaye, Jos., & Co. .. .. .. Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Oil Mill Machinery.

Piggott, Thos., & Co. .. .. Birmingham
Rose, Downs & Thompson .. Old Foundry, Hull
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Packing (Engine).

Beldam Packing & Rubber Co. .. 77, Gracechurch Street, E.C.
Bell, John .. .. Asbestos Works, Southwark
Binney & Son .. .. Cathcart St., City Road, E.C.
Lindsay, R. B., & Co. .. .. Plantation Quay (West) Glasgow
Mead, F. M., & Co. .. .. 323b, Kennington Road, S.E.
Tuck & Co., Limited .. .. 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The .. 161, Queen Victoria Street, E.C.

Paints.

Ragosine & Co. .. .. .. 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Paper.

Hodgkinson & Co. .. .. ..

Paper Making Machinery.

Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Kirkcaldy, N.B.

Patent Agents.

Alexander, E. P. .. .. .. 36, Southampton Buildings, W.C.
Allison, Brothers .. .. .. 52, Chancery Lane, W.C.
Brewer & Jensen .. .. .. 53, Chancery Lane, W.C.
Brookes, Win. .. .. .. 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son .. .. 24, Victoria Chambers, South Parade, Leeds
Hardingham, G. G. M. .. .. 191, Fleet Street, E.C.
Harris & Mills .. .. .. 23, Southampton Buildings, W.C.
Horn & Son .. .. 172, Strand, W.C.
Inventors' Patent Right Association, Limited .. .. .. 21, Cockspur Street, S.W.
Phillips & Leigh .. .. .. 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. .. .. .. 4, South Street, Finsbury, E.C.
Rogers, F. M. .. .. .. 21, Finsbury Pavement, E.C.
Thompson & Boult .. .. .. 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. .. 86, Buchanan Street, Glasgow
Vaughan & Son .. .. .. 57, Chancery Lane, W.C.
Wise, W. Lloyd .. .. .. 46, Lincoln's Inn Fields, W.C.

Patterns.

Ormerod, Grierson & Co. .. .. Manchester
Walker, E. .. .. Avonside Engine Works, Bristol

Permanent Way.

Askham Bros. & Wilson, Ltd. .. Sheffield
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isca Foundry & Engineering Co. Newport, Monmouthshire
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Railway Sleeper Supply Co., The 17, Gracechurch St., London
Thomson & Browning .. .. 3, Victoria Street, E.C.

Photographic Appliances.

Gotz, J. R. .. .. 19, Buckingham Street, W.C.

Pig Iron Breakers.

Evans, J., & Co. .. .. .. Trumpet Street, Manchester

Pile Drivers.

Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham

Piles.

Goodwin, James, & Co. .. .. Ardrossan, N.B.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Pipe Founders.

Clay Cross Co. .. .. Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. Newport, Monmouthshire

Pipe (Drain) Making Machinery.

Clayton, Howlett & Venables .. Harrow Road, W.

Pipes (Sanitary).

Doulton & Co. .. .. .. Lambeth, S.E.
Farnley Iron Co., Limited .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow

Pistons and Piston Rings.

Atkins & Co. .. .. .. Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. .. .. Sowerby Bridge
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Lockwood & Carlisle .. .. Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).

Beardmore, I. & W. .. .. Glasgow
Brown, Bayley, Dixon & Co. .. Sheffield
Jessop, Win., & Sons, Limited Sheffield
Landore Siemens-Steel Co., The .. Landore, South Wales
Leeds Forge Co., The .. .. Leeds
Shelton Bar Iron Co., Limited Stoke-on-Trent
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co., Limited .. .. .. Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.

Bodley Brothers & Co. .. .. Exeter
Boulton, W. .. .. Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.

Farmer, Jas., & Sons .. .. Salford

Propellers.

Ross & Duncan .. .. .. Glasgow
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Pulley Blocks.

Crowley, John, & Co. .. .. Sheffield
Glover, Walter T., & Co. .. .. 25, Booth Street, Manchester
Grimshaw & Co. .. .. .. 88, Paxton Street, Accrington
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Tangyes Limited .. .. .. Birmingham
Thomson, Win. .. .. .. Kinning Park, Glasgow

Pulleys (Cast Iron).

Bagshaw, J. & Sons .. .. Batley, Yorkshire
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Iron Works, Oldham
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Fawcett, Thos. C. .. .. .. Manor Road, Leeds
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Jackson, P. R., & Co. .. .. Salford Rolling Mill, Manchester
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Reading Ironworks Co. .. .. Reading
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J. & Co. .. .. .. Hunslet, near Leeds

Pulleys (Wrought Iron).

Bagshaw, J., & Sons .. .. Batley
Crossley, G. .. .. Albion Machine Works, Cleckheaton
Hall, J. & E. .. .. .. Dartford Ironworks, Kent
Hudswell, Clark & Co. .. .. Railway Foundry, Leeds
Mackie, J. & J., & Co. .. .. Berks Ironworks, Reading
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Reading Ironworks Co., Ltd. .. Reading

Pumps and Pumping Machinery.

Allen, W. H. & Co. .. .. York Street, Lambeth, S.E.
Cameron, John .. .. .. Old Field Rd. Ironworks, Salford
Carrick & Wardle .. .. .. Gateshead
Chaplin, A., & Co. .. .. .. Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. Sumner Street, S.E.
Daglish, R., & Co. .. .. .. St. Helen's, Lancashire
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, Jos., & Sons .. .. Wolverhampton
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Fielding & Platt .. .. .. Gloucester
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. .. Paisley
Hanson, Wm. .. .. Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Ancholme Foundry, Brigg
Hunter & English .. .. .. Bow, E.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.
Loudon, Bros. .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
Mather & Platt .. .. .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Pearn, Frank, & Co. .. .. Manchester
Piggott, Thos., & Co. .. .. Birmingham
Pulsometer Engineering Co., Ltd. Nine Elms, S.W.
Ramsbottom, Jno. .. .. .. Saynor Road, Leeds
Ruston, Proctor, & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Simpson & Co. .. .. .. Pimlico, London
Stannah, J. .. .. 29, Southwark Bridge Rd., S.E.
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool
Wood, H., & Co. .. .. .. Salford, Manchester

Pumps (Centrifugal).

Allen, W. H., & Co. .. .. York St. Works, Lambeth, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, J., & Sons .. .. .. Wolverhampton
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Brigg
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers,
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ruston, Proctor & Co. .. .. Lincoln
Simpson & Co. .. .. .. Pimlico, London
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Pumps (Donkey).

Cameron, John .. .. .. Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited .. Coalbrookdale, Staffordshire
Cochrane, John .. .. .. Barrhead, N.B.
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Hanson, W. .. .. Quebec Works, Bradford
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
London Brothers .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Roger, R., & Co. .. .. .. Stockton-on-Tees
Stannah, J. .. .. 29, Southwark Bridge Rd., S.E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Railway Agents.

Oldham Brothers .. .. .. 110, Cannon Street, E.C.

Railway and Contractors' Plant.

Askham Bros. & Wilson, Ltd. .. Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Decauville, Aîné .. .. .. Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. .. .. Ardrossan, N.B.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Hudson, E. .. .. Gildersome Foundry, nr. Leeds
Isaacson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Thomson & Browning .. .. 3, Victoria St., Westminster, S.W.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).

Bagnall, W. G. .. .. .. Stafford
Decauville, Aîné .. .. .. Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Bucklersbury, E.C. .. 20, Bucklersbury, E.C.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.

Bodmer & Jones .. .. .. Dashwood House, London, E.C.

Rail Lifters.

De Bergue & Co., Limited . Manchester

Rails (Steel or Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, J., & Son .. .. .. 402, St. Mary's Gate, Derby
Brown, Bayley, Dixon & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co. Workington, Cumberland

Reducing Valves.

Hanson, Wm. .. .. Quebec Works, Bradford

Refrigerating Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & E. .. .. .. Dartford Ironworks, Kent

Rice Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Kirkcaldy, N.B.
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.

Anderson & Gallwey .. .. 8, Buckingham Street, Adelphi, W.C.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.

Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son, & Commans 52, Gracechurch St., E.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).

Perry, Thomas, & Son .. .. Highfield Works, Bilston
Tinsley, Eliza .. .. .. Great Bridge, Staffordshire

Roofs (Iron, Steel and Zinc).

Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Clarke, Bunnett & Co., Limited Rathbone Place, W.
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Janson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, J., Limited .. .. St. Vincent Works, Bristol
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.

Goodfellow & Matthews .. .. Hyde, near Manchester

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.

The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.

Doulton & Co. .. .. . Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.

Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Kirkstall Forge Co. .. .. .. Leeds
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Tinsley, Eliza .. .. .. Great Bridge, Yorkshire
Yates, J., & Co. .. .. .. SheafWorks, Hunslet Rd., Leeds

Ship Builders.

Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.

Thom, J. .. .. 8, Storey Sq., Barrow-in-Furness

Soda Water Machinery.

Barnett & Foster .. .. .. 25a, Eagle Wharf Road, N.

Speed Indicators.

Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.

Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. .. Sheffield
Salton, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos., & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.

Booth, Geo., & Co. .. .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited .. .. Sheffield
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.

Hanson, W. .. .. .. Quebec Works, Bradford
Lancaster & Tonge .. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steaming Machines.

Smith & Johnston .. .. .. Paisley Road, Glasgow

Steel Makers.

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. .. Sheffield
Ibbotson Bros., & Co., Limited .. Sheffield
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co. .. .. .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.

Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).

Knap, Conrad .. .. .. 11, Queen Victoria Street, E.C.
Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.

Baxter, W. H., & Co. .. .. Albion Street, Leeds
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.

Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Western & Co. .. .. .. Chaddesden Works, Derby

Sugar Machinery.

Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Howlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Surface Plates.

Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.

Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.

Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129b, Stockwell St., Glasgow
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited .. Gainsborough

Telegraphs (Engine and Steering).

Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.

Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Timber Merchants.

Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Tools (Hand and Small).

Bedford, J., & Sons .. .. Lion Works, Sheffield
Chatwin, Thos. .. .. .. Gt. Tindal St., Birmingham
Churchill, C., & Co. .. .. 21, Cross Street, Finsbury, E.C.
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Lee, Howl, Ward & Howl .. Tipton
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H. .. .. .. Ordsall Lane, Manchester

Torpedo Boats.

Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.

Askham Bros. & Wilson, Ltd. . Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Tube Cleaners.

Boaz, W. .. .. 29, West India Dock Road

Tubes (Brass).

Birmingham Battery & Metal Co. Birmingham
Munts's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).

Aird, Jos. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Rutherglen, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lewis, E., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Sun Tube Co. .. .. .. Coatbridge, N.B.
Weldless Steel Tube Co. .. Ickniield Port Rd., Birmingham

Tube Expanders.

Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria St., E.C.
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Tube Making Machinery.

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Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
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Turbines.

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Hunter & English .. .. .. Bow, London, E.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Rhodes, B. .. .. 240, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan
Wood, H., & Co. .. .. .. Salford, Manchester

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Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

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Vulcanite.

Winter, F. .. .. 138, London Wall, E.C.

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Falcon Engine & Car Works, Ltd. Loughborough
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Porter, John Henderson .. .. 1 & 2, Tudor Street, E.C.

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Bodley Brothers & Co. .. .. Exeter
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Harper & Co. .. .. .. Albion Ironworks, Aberdeen
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Metropolitan Railway Carriage and Wagon Co. .. .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

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Brown, Bayley, Dixon & Co. .. Sheffield
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Hadfield Steel Foundry Co. .. Sheffield
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Jessop, Wm., & Sons .. .. Sheffield
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Reichwald, A. .. .. .. Newcastle-on-Tyne
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Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
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Woods, H., & Co. .. .. .. Salford, Manchester

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Negretti & Zambra .. .. Holborn Viaduct, E.C.

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Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.

Condensers (for Steam Engines).
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Coppersmiths.
Birmingham Battery & Metal Co. Birmingham
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Grange Iron Co., Limited .. Durham
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Hanson, Wm. .. .. .. Quebec Works, Bradford
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
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Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, John .. .. .. Stockton-on Tees
Priestman Brothers .. .. Hull
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited. .. Sheffield
Selig, Sonnenthal & Co. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son Dens Ironworks, Arbroath
Shirlaw, A., & Co... .. .. Berkley Street, Birmingham
Smith, Thos. .. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Acme Works, Cardiff
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Disinerustants.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Hannay's Marine Appliances Co., Limited .. .. .. 67, Great Clyde Streeet, Glasgow
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.
Thorp, John B. .. .. .. Copthall House, Telegraph St., Moorgate Street, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Clark, Bunnett & Co., Limited .. Rathbone Place, W.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath

Drying Machines for Textile Materials.
Smith & Johnston.. .. .. Paisley Road, Glasgow

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Goeling, Robert, & Co. .. .. Hatton Court, Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lowcock, A... .. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Chamberlain & Hookham, Ltd... Birmingham
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Gerard & Co., Limited .. .. 82, Hatton Garden, E.C.
Hartnell, W. .. .. .. Park Row, Leeds
Johnson & Phillips .. .. 14, Union Ct., Old Broad St., E.C.
Paterson & Cooper.. .. .. 76, Little Britain, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons.. .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria St., E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno. & Co. .. .. .. Albert Engine Works, Leith
Dewrance, John, & Co. .. .. 153, Great Dover Street, S.E.
Galloway, W. & J., & Sons .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street, E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited.. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neil, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ormerod, Grierson & Co... .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Walker Brothers .. .. .. Wigan

Engines (Fire).
Rose, W., & Co. .. .. .. Deansgate, Manchester

Engines (Gas).
Andrew, J. E. H., & Co. .. .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros., Limited .. .. Manchester
Müller, H. L. .. .. .. Birmingham
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth. Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. Glasgow
Decouville, Aîné .. .. .. Petit-Bourg, (Seine et Oise), France
Falcon Engine & Car Works, Ltd. Loughborough
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works.. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons, Limited .. Thetford
Cran, John, & Co... .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Wood Brothers .. .. .. Valley Ironworks, Sowerby Bridge, Yorkshire
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. à St. Denis, Seine
Clayton & Shuttleworth .. Lincoln
Davey, Paxman & Co... .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. R. .. .. .. Wellingborough
Ransomes, Head & Jefferies .. Ipswich
Reading Ironworks Co. Ltd. Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. Belper
Turner, E. R. & F. .. .. St. Peter's, Ipswich

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan.. .. .. Sentinel Works, Glasgow
Barrows & Stewart .. .. Banbury
Beckwith, E., & Co. .. .. Sunderland
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bumsted, F. D. .. .. .. Hednesford, Staffs.
Carrick & Wardale .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. .. Barrhead
Coles, H. J... .. .. .. Sumner Street, S.E.
Coley, Henry .. .. .. Mansion House Chambers, 11, Queen Victoria Street, E.C.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co... .. Colchester
Davy Brothers, Limited .. .. Sheffield
Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Fawcett, Thomas, C. .. .. Manor Road, Leeds

Engines (Stationary).—*Continued.*
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co., Limited .. Durham
Hanson, Wm. .. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Heenan & Froude .. .. .. Manchester
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son.. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Head & Jefferies .. Ipswich
Robey & Co... .. .. .. Lincoln
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Eagle Ironworks, Belper
Smith & Johnston.. .. .. Paisley Road, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Willans & Robinson .. .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Woods, H. & Co. .. .. .. Manchester

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Sons, Limited .. Thetford
Clayton & Shuttleworth.. .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C

Fans and Blowers.
Allday, Wm., Sons, & Co. .. Birmingham
Capell, R. A. .. .. .. Durham
Donald, J., & Sons .. .. 42, Cadogan Street, Glasgow
Donkin, B., & Co... .. .. Bermondsey, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Grange Iron Co., Limited .. Durham
McCulloch, T., & Sons .. .. Kilmarnock
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wood, Hamilton & Co. .. .. Salford, Manchester
Wright, Jos., & Co. .. .. Tipton, Staffordshire

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons.. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co... .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Firebars.
Patent Diagonal Rocking Fire-Bar Co. .. .. 259, Gresham House, E.C.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 1, Cullum Street, E.C.

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. Gloucester

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Landore Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co... .. .. Sheffield
Reichwald, A. .. .. .. Newcastle-on-Tyne
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, J., & Son. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Etna Works, Smethwick, Birmingham
Ianson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Tomey & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 153, Great Dover Street, S.E.
Salter, Geo., & Co... .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co... .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.

Glass Machinery (Plate)
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N.

Governors (Engine).
Blair, George .. .. .. 38, Queen Street, Glasgow
Duncan Bros. (Taite's Electric).. 32, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Kilblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Gibbs, Renton .. .. .. St. James' Works, Mill Street, Liverpool
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of).. Rodley, near Leeds
Bowser & Son .. .. .. Great Wellington St., Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works Glasgow
Coles, H. J. .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipe (Flax).
Richards & Co. .. .. .. Aberdeen

Hydraulic Machinery.
Adamson, D., & Co. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. 8, Buckingham Street, W.C.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
Coles, H. J... .. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard.. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W

Hydraulic Presses.

Bessemer, Henry, & Co., Limited — Sheffield
Carrick & Wardale — Gateshead-on-Tyne
Coles, H. J. — 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. — Dobbie's Loan, Glasgow
Drysdale & Co. — Bon Accord Engine Works, Glasgow
Fielding & Platt — Gloucester
Middleton, Robert — Sheepscar Foundry, Leeds.
Norman, John, & Co. — Keppochill Engine Works, Glasgow
Rose, Downs & Thompson — Old Foundry, Hull
Stothert & Pitt, Limited — Bath
Tangyes Limited — Cornwall Works, Birmingham
Tweddell, R. H. — 14, Delahay Street, S.W.
Tyler, H., & Co. — 84, Upper Whitecross St., E.C.
Woods, H., & Co. — Salford, Manchester

Hydrokineter.

Weir, G. & J. — 49, Jamaica Street, Glasgow

Ice Making Machines.

Piggott, T., & Co. — Springhill, Birmingham

India Rubber Goods.

Angus, Geo., & Co. — Newcastle-on-Tyne
Harburg India Rubber Comb Co. — 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited — Silvertown, Essex
MacLellan, George, & Co. — Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. — Edinburgh
Star Rubber Co., The — 131, West Regent St., Glasgow

Indicators (Steam Engine).

Hannan & Buchanan — 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) — 65, Queen Victoria Street, E.C.

Injectors.

Donald, J., & Son — 42, Cadogan Street, Glasgow
Fairburn & Hall — 63, Royal Exchange, Manchester
Gresham & Craven — Manchester
Hancock Inspirator Co. — 108, Upper Thames St., E.C.
Holden & Brooke — St. Simon Works, Salford
Korting Brothers — 17, Lancaster Avenue, Manchester
Madan, C. S. — 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. — Nottingham
Patent Exhaust Steam Injector Co., Limited — 4, St. Ann's Square, Manchester
Schaffer & Budenburg — St. Mary Street, Manchester

Insurance Companies.

Employers' Liability Assurance Corporation, Limited — 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited — 17, Queen Victoria Street, E.C.

Iron and Steel Works (Plant for).

Adamson, D., & Co. — Dukinfield, Manchester
Davey, Bros., Limited — Sheffield
Galloway, W. & J., & Sons — Manchester
Goodwin, James, & Co. — Ardrossan, N.B.
McCulloch, T., & Sons — Kilmarnock
Thwaites Bros. — Bradford
Walker Bros. — Wigan
Walker, T., & Co. — Leeds
Whitwell, W. (Stoves) — Stockton-on-Tees
Woods, H., & Co. — Salford, Manchester

Iron Buildings.

Clark, Bunnett & Co., Limited — Bathbone Place, W.
Davies Brothers & Co. — Crown Iron Works, Wolverhampton
Davies, M. H. — Grange Rd., Bermondsey, S.E.
Dixon, I. — Windsor Ironworks, Liverpool
Lysaght, John, Limited — Bristol
Macfarlane, Walter, & Co. — Possil Park, Glasgow
Morewood & Co. — Soho, Birmingham
Morton, F., & Co., Limited — Naylor St. Ironworks, Liverpool

Iron Joists (Rolled).

Measures Bros. & Co. — Southwark Street, S.E.

Jacks (Lifting).

Dudgeon, Richard — 114, Fenchurch Street, E.C.
Gibbins, R. C., & Co. — Berkley St., Birmingham
Pickering, Jthn. — Stockton-on-Tees
Selig, Sonnenthal & Co. — 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. — Berkley Street, Birmingham
Tangyes Limited — Cornwall Works, Birmingham

Keys and Pins.

Mills, Jas. (Executors of) — Bredbury, near Stockport
Smith, H. Ford — Seddon St., Salford, Manchester

Lamps.

Barnett & Foster — 25a, Eagle Wharf Road, N.

Launches and Yachts.

Burnet, L., & Co. — Govan, Glasgow
Chaplin, Alex., & Co. — Cranston Hill Engine Works, Glasgow
Cochran & Co. — Birkenhead
Cran, J., & Co. — Albert Engine Works, Leith
Des Vignes, G. F. G. — Chertsey
Edwards & Symes — Wharf Rd., Cubitt Town, E.
Forrestt & Son — Limehouse, E.
Hanna, Donald & Wilson — Paisley, N.B.
Hayes, Ed. — Stony Stratford
Kerr, Stuart & Co. — 20, Bucklersbury, E.C.
Miller & Tupp — Middle Mall, Hammersmith
Paul, M., & Co. — Levenford Works, Dumbarton
Ross & Duncan — Whitefield Works, Glasgow
Thornycroft, J. I., & Co. — Chiswick, W.
Vosper & Co. — Broad Street, Portsmouth
Yarrow & Co. — Poplar, E.

Laundry Machines.

Manlove, Alliott, Fryer & Co. — Nottingham

Leather Machinery.

Drysdale & Co. — Bon Accord Engine Works, Glasgow
Stothert & Pitt, Limited — Bath

Lifts.

Coles, H. J. — 89, Sumner Street, S.E.
Drysdale & Co. — Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. — Berkley St., Birmingham
Hanson, W. — Bradford
Hunter & English — Bow, E.
Pickering, Jthn. — Stockton-on-Tees
Thomas, T., & Sons — Cardiff
Waygood, R., & Co. — Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.

Kell, Thos., & Son — 40, King Street, Covent Garden, W.C.

Locomotive Details.

Storey, I., & Sons — Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.

Bell, J. — Asbestos Works, Southwark, S.E.
Bliven's American Lubricating Cream — 23, Brunswick St., Liverpool
Bradford, J., & Sons — Liverpool
Crane, P. Moir, & Co. — Bank Street, Manchester
Engelbert & Co. — 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited — 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. — Battersea, S.W.
Ragosine & Co. — 7, Idol Lane, E.C.

Lubricators.

Dewrance & Co. — 158, Great Dover Street, S.E.
Empire Lubricator Co. — Great Bridgewater Street, Manchester
Foster, E., & Son — Halifax
Körting Brothers — 17, Lancaster Avenue, Manchester
Nettlefolds, Limited — Birmingham
Trier Brothers — 19, St. George St., Westminster
Whitehouse & Co. — Tipton Hall Chain Works, Staffordshire

Machine Tools.

Anderson & Gallwey — 8, Buckingham Street, W.C.
Archdale, Jas., & Co. — Ledsam Street, Birmingham
Askham Bros. & Wilson, Ltd. — Sheffield
Asquith, W. — Highroad Well Works, Halifax
Barlow, H. B., & Co. — Cornbrook Works, Manchester
Beckwith, E., & Co. — Sunderland
Berry, F., & Sons — Calder Ironworks, Sowerby Bridge
Berry, H. — Croydon Works, Hunslet, Leeds
Booth, Geo., & Co. — Halifax
Butterfield, F. & J., & Co. — Keighley, Yorkshire
Cameron, John — Oldfield Road Ironworks, Salford
Churchill, C., & Co. — Cross Street, Finsbury, E.C.
Davis & Primrose — Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited — Manchester
Dron & Lawson — Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. — Crown Works, Booth Town, Halifax
Fielding & Platt — Gloucester
Galloway, W. & J., & Sons — Manchester
Harvey, Robert, & Co. — Park Grove Ironworks, Glasgow
Heap, Joshua, & Co. — Ashton-under-Lyne
Kendall & Gent — Victoria Works, Manchester
Laing, J., & Sons — Johnstone, N.B.
Lee & Hunt — Arkwright Works, Manchester
Loudon Bros. — Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. — 147, Queen Victoria Street, E.C.
McArthur, A., & Son — Johnston, N.B.
Muir, Wm., & Co. — Sherbourne Street, Manchester
New, D., & Co. — 15, Devonshire Chambers, E.C.
Pitt Bros. — Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate — Shettlestone, Glasgow
Rushworth & Co. — Sowerby Bridge, Yorkshire
Scott Bros. — West Mount Ironworks, Halifax
Scriven & Co. — Leeds Old Foundry, Marsh Lane Leeds
Selig, Sonnenthal & Co. — 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. — Leeds
Shirlaw, A., & Co. — Suffolk Works, Birmingham
Smith & Coventry — Orchal Lane, Salford, Manchester
Smith & Willshaw — Halifax
Tangyes Machine Tool Co., Ltd. — Soho, Birmingham
Tweddell, R. H. — 14, Delahay Street, S.W.
Widdowson, J. H. — Orchall Lane, Salford
Winn, Charles, & Co. — Granville Street, Birmingham

Maize Dressing Machinery.

Copeland, J., & Co. — Dobbie's Loan, Glasgow
Norman, John, & Co. — Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.

Archbutt, J. & W. E. — Westminster Bridge Road, Lambeth, S.W.
Negretti & Zambra — Holborn Viaduct, E.C.
Stanley, W. F. — Great Turnstile, Holborn, W.C.

Metals (Phosphor, Alloys, &c.).

Billington & Newton — Longport, Staffordshire
Cockshott & Jowett — 145, Thornton Road, Bradford
Dick, Alex. — 110, Cannon Street, E.C.
Evans, James, & Co. — Gaythorn, Manchester
Hughes, J. & J. — Woodcock Street, Birmingham
Phosphor Bronze Co., Limited — Sumner Street, S.E.

Meters.

Manchester Water Meter Co., Limited — Ardwick, Manchester

Mill Gearing, Shafting, &c.

Askham Bros. & Wilson, Ltd. — Sheffield
Bessemer, Henry, & Co., Limited — Sheffield
Bodley, Bros., & Co. — Exeter
Brown, Bayley, Dixon & Co. — Sheffield
Buckley & Taylor — Castle Ironworks, Oldham
Forsyth, Miller & Co. — Mile End, Glasgow
Goodfellow & Matthews — Hyde, near Manchester
Hawthorn, R. & W. — Newcastle-on-Tyne
Hick, Hargreaves & Co. — Soho Ironworks, Bolton
Hind, H., & Co. — Nottingham
Jackson, P. R., & Co. — Salford Rolling Mills, Salford
Kirkstall Forge Co. — Leeds
McCulloch, T., & Sons — Kilmarnock
Musgrave, John, & Sons — Bolton
Reichwald, A. — Newcastle-on-Tyne
Savile Street Foundry and Engineering Co., Limited — Sheffield
Smith, Parfrey & Hitchings — Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. — Spring Hill, Birmingham
Taylor & Challen — Derwent Foundry, Birmingham
Yates & Co. — Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).

Carter, J. H. — 82, Mark Lane, E.C.
Clayton & Shuttleworth — Lincoln
Copeland, J., & Co. — Dobbies' Loan, Glasgow
Hunter & English — Bow, E.
Landale, James — Kirkcaldy, N.B.
Marshall, Sons & Co., Limited — Gainsborough
McCulloch, T., & Son — Kilmarnock
Norman, J., & Co. — Keppochill Engine Works, Glasgow
Ransomes, Head, & Jefferies — Ipswich
Ruston, Proctor, & Co. — Lincoln
Turner, E. R., & F. — Ipswich

Mills (Paint, Oil, Mortar, &c.).

Butters Brothers — Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) — Manchester
Rose, Downs, & Thompson — Hull
Selig, Sonnenthal & Co. — 85, Queen Victoria Street, E.C.
Spencer & Co. — Melksham, Wilts
Wilson, John H., & Co. — Sandhills, Liverpool

Mining Machinery.

Askham Bros. & Wilson, Ltd. — Sheffield
Chaplin, Alex., & Co. — Cranston Hill Engine Works, Glasgow
Clay Cross Co. — Clay Cross, near Chesterfield
Daglish, R. & Co. — St. Helens, Lanc.
Hathorn, Davey & Co. — Leeds
Jordan, T. B., Son & Commans. — 52, Gracechurch Street, E.C.
McCulloch, T., & Sons — Kilmarnock
Robey & Co. — Lincoln
Ruston, Proctor & Co. — Lincoln
Tangyes Limited — Cornwall Works, Birmingham
Walker, Bros. — Wigan

Moulding Machines.

Whittaker, Wm., & Co. — Oldham

Non-Conducting Compositions.

Anderson, D., & Son, Limited — Lagan Felt Works, Belfast
Bell, J. — Asbestos Works, Southwark, S.E.
Haacke, A., & Co. — 21, Lime Street, E.C.
Keenan, M. — Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. — Gray Street, Commercial Rd., E.

Nuts (Finished).

Mercer, Ed. — Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.

Kaye, Jos., & Co. — Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.

Copeland, J., & Co. — Dobbie's Loan, Glasgow
Norman, John, & Co. — Keppochill Engine Works, Glasgow

Oil Mill Machinery.

Piggott, Thos., & Co. — Birmingham
Rose, Downs & Thompson — Old Foundry, Hull
Rowlandson, W. — 132, Boundary St., Liverpool
Tangyes Limited — Cornwall Works, Birmingham

Packing (Engine).

Beldam Packing & Rubber Co. — 77, Gracechurch Street, E.C.
Bell, John — Asbestos Works, Southwark
Binney & Son — Catherine St., City Road, E.C.
Lindsay, R. B., & Co. — Plantation Quay (West) Glasgow
Mead, F. M., & Co. — 323b, Kennington Road, S.E.
Tuck & Co., Limited — 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The — 161, Queen Victoria Street, E.C.

Paints.

Ragosine & Co. — 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited — 161, Queen Victoria Street, E.C.

Paper.

Hodgkinson & Co. —

Paper Making Machinery.

Donkin, B., & Co. — Bermondsey, S.E.
Douglas & Grant — Kirkcaldy, N.B.

Patent Agents.

Alexander, E. P. — 36, Southampton Buildings, W.C.
Allison, Brothers — 52, Chancery Lane, W.C.
Brewer & Jensen — 33, Chancery Lane, W.C.
Brookes, Wm. — 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son — 24, Victoria Chambers, South Parade, Leeds
Harris & Mills — 22, Southampton Buildings, W.C.
Horn & Son — 172, Strand, W.C.
Inventors' Patent Right Association, Limited — 21, Cockspur Street, S.W.
Phillips & Leigh — 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. — 4, South Street, Finsbury, E.C.
Rogers, F. M. — 21, Finsbury Pavement, E.C.
Thompson & Boult — 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. — 95, Buchanan Street, Glasgow
Vaughan & Son — 57, Chancery Lane, W.C.
Wise, W. Lloyd — 46, Lincoln's Inn Fields, W.C.

Patterns.

Ormerod, Grierson & Co. — Manchester
Walker, E. — Avonside Engine Works, Bristol

Permanent Way.

Askham Bros. & Wilson, Ltd. — Sheffield
Dick, Kerr & Co. — 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers — Stoke-on-Trent
Isca Foundry & Engineering Co. — Newport, Monmouthshire
Kerr, Stuart & Co. — 20, Bucklersbury, E.C.
Railway Sleeper Supply Co., The — 17, Gracechurch St., London
Thomson & Browning — 3, Victoria Street, E.C.

Pig Iron Breakers.

Evans, J., & Co. — Trumpet Street, Manchester

Pile Drivers.

Gibbins, R. C., & Co. — Berkley Street, Birmingham

Piles.

Goodwin, James, & Co. — Ardrossan, N.B.
Le Grand & Sutcliff — 100, Bunhill Row, E.C.

Pipe Founders.

Clay Cross Co. — Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. — Newport, Monmouthshire

Pipe (Drain) Making Machinery.

Clayton, Howlett & Venables — Harrow Road, W.

Pipes (Sanitary).

Doulton & Co. — Lambeth, S.E.
Farnley Iron Co., Limited — Farnley, near Leeds
Glenboig Union Fire Clay Co., The — Glasgow

Pistons and Piston Rings.

Atkins & Co. — Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. — Sowerby Bridge
Jackson, P. R., & Co. — Salford Rolling Mills, Manchester
Lockwood & Carlisle — Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).

Beardmore, I. & W. — Glasgow
Brown, Bayley, Dixon & Co. — Sheffield
Jessop, Wm., & Sons, Limited — Sheffield
Landore Siemens-Steel Co., The — Landore, South Wales
Leeds Forge Co., Limited — Leeds
Shelton Bar Iron Co., Limited — Stoke-on-Trent
Steel Co. of Scotland, Limited — Glasgow
West Cumberland Iron & Steel Co., Limited — Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.

Bodley Brothers & Co. — Exeter
Boulton, W. — Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.

Farmer, Jas., & Sons — Salford

Propellers.

Ross & Duncan — Glasgow
Savile Street Foundry and Engineering Co., Limited — Sheffield

Pulley Blocks.

Crowley, John, & Co. — Sheffield
Glover, Walter T., & Co. — 25, Booth Street, Manchester
Pickering, Jthn. — Stockton-on-Tees
Selig, Sonnenthal & Co. — 85, Queen Victoria Street, E.C.
Tangyes Limited — Birmingham
Thomson, Wm. — Kinning Park, Glasgow

Pulleys (Cast Iron).

Bagshaw, J. & Sons — Batley, Yorkshire
Bodley Brothers & Co. — Exeter
Buckley & Taylor — Castle Iron Works, Oldham
Crossley, Geo. — Cleckheaton, Yorkshire
Fawcett, Thos. C. — Manor Road, Leeds
Goodfellow & Matthews — Hyde, near Manchester
Harper & Co. — Albion Ironworks, Aberdeen
Jackson, P. R., & Co. — Salford Rolling Mill, Manchester
Ormerod, Grierson & Co. — Hulme, Manchester
Reading Ironworks Co. — Reading
Rowlandson, W. — 132, Boundary St., Liverpool
Taylor & Challen — Derwent Foundry, Birmingham
Yates, J. & Co. — Hunslet, near Leeds

Pulleys (Wrought Iron).

Bagshaw, J., & Sons — Batley
Crossley, G. — Albion Machine Works, Cleckheaton
Hall, J. & E. — Dartford Ironworks, Kent
Hudswell, Clark & Co. — Railway Foundry, Leeds
Mackie, J. & J., & Co. — Berks Ironworks, Reading
Okes, J. C. R. — 39, Queen Victoria Street, E.C.
Pickering, Jthn. — Stockton-on-Tees
Reading Ironworks Co., Ltd. — Reading

Pumps and Pumping Machinery.

Allen, W. H. & Co. — York Street, Lambeth, S.E.
Cameron, John — Old Field Rd. Ironworks, Salford
Carrick & Wardle — Gateshead
Chaplin, A., & Co. — Glasgow
Clay Cross Co. — Clay Cross, near Chesterfield
Coalbrookdale Co., Limited — Coalbrookdale, Shropshire
Cochrane, Jno. — Barrhead
Coles, H. J. — Sumner Street, S.E.
Daglish, R., & Co. — St. Helen's, Lancashire
Drysdale & Co. — Bon Accord Engine Works, Glasgow
Evans, Jos., & Sons — Wolverhampton
Fairburn & Hall — 63, Royal Exchange, Manchester
Fielding & Platt — Gloucester
Grange Iron Co., Limited — Durham
Hanna, Donald & Wilson — Paisley
Hanson, Wm. — Bradford
Harvey, Robert, & Co. — Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. — Leeds
Hett, C. L. — Ancholme Foundry, Brigg
Hunter & English — Bow, E.
Isler, C., & Co. — 88, Southwark Street, S.E.
Le Grand & Sutcliff — 100, Bunhill Row, E.C.
Loudon, Bros. — Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The — Whitehaven
Maier & Platt — Manchester
McCulloch, T., & Sons — Kilmarnock
Neill, W., & Son — St. Helen's Junction, Lancashire
New, D., & Co. — 15, Devonshire Chambers, E.C.
Okes, J. C. R. — 39, Queen Victoria Street, E.C.
Owens, S., & Co. — Whitefriars Street, E.C.
Pearn, Frank, & Co. — Manchester
Piggott, Thos., & Co. — Birmingham
Pulsometer Engineering Co., Ltd. — Nine Elms, S.W.
Ramsbottom, Jno. — Saynor Road, Leeds
Ruston, Proctor, & Co. — Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited — Sheffield
Selig, Sonnenthal & Co. — 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son — Dens Ironworks, Arbroath
Simpson & Co. — Pimlico, London
Stannah, J. — 29, Southwark Bridge Rd., S.E.
Stothert & Pitt, Limited — Bath
Tangyes Limited — Cornwall Works, Birmingham
Taylor & Challen — Birmingham
Tweddell, R. H. — 14, Delahay Street, S.W
Tyler, H., & Co. — 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. — York Road, King's Cross, N.
Wilson, Alex., & Co. — Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. — Sandhills, Liverpool
Wood, H., & Co. — Salford, Manchester

Pumps (Centrifugal).

Allen, W. H., & Co. — York St. Works, Lambeth, S.E.
Drysdale & Co. — Bon Accord Engine Works, Glasgow
Evans, J., & Sons — Wolverhampton
Hathorn, Davey & Co. — Leeds
Hett, C. L. — Brigg
Lowca Engineering Co., Ltd., The — Whitehaven
New, D., & Co. — 15, Devonshire Chambers,
Owens, S., & Co. — Whitefriars Street, E.C.
Ruston, Proctor & Co. — Lincoln
Simpson & Co. — Pimlico, London
Tangyes Limited — Cornwall Works, Birmingham

Pumps (Donkey).

Cameron, John — Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. — Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited — Coalbrookdale, Staffordshire
Cochrane, John — Barrhead, N.B.
Coles, H. J. — 89, Sumner St., Southwark, S.E.
Hanson, W. — Quebec Works, Bradford
Hathorn, Davey & Co. — Leeds
Hatton, J. — Coventry
Loudon Brothers — Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The — Whitehaven
McCulloch, T., & Sons — Kilmarnock
New, D., & Co. — 15, Devonshire Chambers, E.C.
Okes, J. C. R. — 39, Queen Victoria Street, E.C.
Owens, S., & Co. — Whitefriars Street, E.C.
Roger, R., & Co. — Stockton-on-Tees
Stannah, J. — 29, Southwark Bridge Rd., S.E.
Tangyes Limited — Cornwall Works, Birmingham
Wilson, Alex., & Co. — Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. — Sandhills, Liverpool

Punching and Shearing Machines.

Beckwith, E., & Co. — Sunderland

Railway Agents.

Oldham Brothers — 110, Cannon Street, E.C.

Railway and Contractors' Plant.

Askham Bros. & Wilson, Ltd. — Sheffield
Brown, Bayley, Dixon & Co. — Sheffield
Chaplin, Alex., & Co. — Cranston Hill Engine Works, Glasgow
Darlington Steel & Iron Co., Ltd. — 3, Victoria St., Westminster, S.W.
Decauville, Aîné — Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. — 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. — Ardrossan, N.B.
Hadfield's Steel Foundry Co. — Attercliffe, Sheffield
Hartley & Arnoux Brothers — Stoke-on-Trent
Hudson, R. — Gildersome Foundry, nr. Leeds
Jenson, C., Son & Co. — Darlington
Isca Foundry & Engineering Co. — Newport, Monmouthshire
Ransomes & Rapier — 5, Westminster Chambers, S.W.
Thomson & Browning — 3, Victoria St., Westminster, S.W.
Wood, C. — Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).

Bagnall, W. G. — Stafford
Decauville, Aîné — Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. — 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers — Stoke-on-Trent
Kerr, Stuart & Co. — 20, Bucklersbury, E.C.
Wood, C. — Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.

Bodmer & Jones — Dashwood House, London, E.C.

Rail Lifters.

De Bergue & Co., Limited — Manchester

Rails (Steel or Iron).

Askham Bros. & Wilson, Ltd. — Sheffield
Beatson, J., & Son — 402, St. Mary's Gate, Derby
Brown, Bailey, Dixon, & Co., Ltd. — Sheffield
Darlington Steel & Iron Co., Ltd. — 3, Victoria St., Westminster, S.W.
Hartley & Arnoux Brothers — Stoke-on-Trent
Steel Co. of Scotland, Limited — Glasgow
West Cumberland Iron & Steel Co. — Workington, Cumberland

Reducing Valves.

Hanson, Wm. — Quebec Works, Bradford

Refrigerating Machinery.

Copeland, J., & Co. — Dobbie's Loan, Glasgow
Douglas & Grant — Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & E. — Dartford Ironworks, Kent

Rice Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Kirkcaldy, N.B.
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.

Anderson & Gallwey .. .. 8, Buckingham Street, Adelphi, W.C.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.

Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son, & Commans 52, Gracechurch St., E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).

Perry, Thomas, & Son .. .. Highfield Works, Bilston

Roofs (Iron, Steel and Zinc).

Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Clarke, Bunnett & Co., Limited Rathbone Place, W.
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Iamson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, J., Limited .. .. St. Vincent Works, Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.

Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.

The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.

Doulton & Co. .. .. .. Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.

Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Kirkstall Forge Co. .. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J., & Co. .. .. .. Sheaf Works, Hunslet Rd., Leeds

Ship Builders.

Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.

Thom, J. .. .. S. Storey Sq., Barrow-in-Furness

Soda Water Machinery.

Barnett & Foster .. .. .. 25q, Eagle Wharf Road, N.

Speed Indicators.

Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.

Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. .. Sheffield
Salter, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos., & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.

Booth, Geo., & Co. .. .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited .. .. Sheffield
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire

Steam Hammers.—*Continued.*

Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.

Hanson, W. .. .. .. Quebec Works, Bradford
Lancaster & Tonge .. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steaming Machines.

Smith & Johnston .. .. .. Paisley Road, Glasgow

Steel Makers.

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. .. Sheffield
Ibbotson Bros., & Co., Limited .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.

Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).

Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.

Baxter, W. H., & Co. .. .. Albion Street, Leeds
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.

Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Western & Co. .. .. .. Chaddesden Works, Derby

Sugar Machinery.

Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Howlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Surface Plates.

Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.

Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.

Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited .. Gainsborough

Telegraphs (Engine and Steering).

Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.

Glover, W. T., & Co. .. .. 23, Booth Street, Manchester

Timber Merchants.

Bruce, Geo. .. .. 11, Leadenhall Street, E.C.
Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Tools (Hand and Small).

Bedford, J., & Sons .. .. Lion Works, Sheffield
Chatwin, Thos. .. .. .. Gt. Tindal St., Birmingham
Churchill, C. & Co. .. .. 21, Cross Street, Finsbury, E.C.
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H. .. .. .. Ordsall Lane, Manchester

Torpedo Boats.

Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.

Askham Bros. & Wilson, Ltd. . Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Tube Cleaners.

Boaz, W. .. .. 29, West India Dock Road

Tubes (Brass).

Birmingham Battery & Metal Co. Birmingham
Munta's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).

Aird, Jos. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Rutherglen, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Lewis, E., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Weldless Steel Tube Co. .. Icknield Port Rd., Birmingham

Tube Expanders.

Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria St., E.C.
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Tube Making Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester

Tube Wells.

Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Turbines.

Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Hanna, Donald & Wilson .. Paisley, N.B.
Hett, C. L. .. .. Ancholme Foundry, Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
McKenzie, Thos., & Sons, Ltd. .. 16, Holborn Viaduct, E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Stothert & Pitt, Limited .. .. Bath

Turnstiles.

Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tuyeres.

Newlove, R. R., & Co. (Water) .. Nottingham

Tyres (Railway).

Bessemer, H., & Co., Limited .. Sheffield
Brown, Bayley, Dixon, & Co. .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds

Valuers, Engineering.

Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Valves (Gas, Water, &c.).

Alley & Maclellen .. .. .. Glasgow
Dewrance, J., & Co., ... 158, Great Dover Street, S.E.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Duncan Brothers .. .. .. 32, Queen Victoria Street, E.C.
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Hartley & Sugden, Limited .. Halifax
Hunter & English .. .. .. Bow, London, E.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Rhodes, B. .. .. 246, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan
Wood, H., & Co. .. .. .. Salford, Manchester

Valves, Safety.

Adams, Thos. (Executors of) .. West Gorton, Manchester
Turnbull, Alex., & Co. .. .. Glasgow

Ventilators.

Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

Vices.

Macbrair, W. M. .. .. .. Sheaf Island Works, Sheffield

Vulcanite.

Winter, F. .. .. 138, London Wall, E.C.

Wagon (Railway) Builders.

Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Bagnall, W. C. .. .. .. Stafford
Falcon Engine & Car Works, Ltd. Loughborough
Metropolitan Railway Carriage & Wagon Co., Limited .. .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co. Limited .. .. Abbey Works, Shrewsbury

Wagons (Tip).

Decauville, Aîné .. .. .. à Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Hudson, R. .. .. Gildersome Foundry, near Leeds

Water Closets.

Winn, Charles, & Co. .. .. Granville Street, Birmingham

Water Meters.

Manchester Water Meter Co., Ltd. Tipping Street, Ardwick, Manchester

Water Purifying Apparatus.

Patent Steam Boiler Co. .. 11, Queen Victoria Street, E.C.
Porter, John Henderson .. .. 1 & 2, Tudor Street, E.C.

Water Wheels.

Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Bodley Brothers & Co. .. .. Exeter
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hett, C. L. .. .. Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Stothert & Pitt, Limited .. .. Bath

Weighing Machines.

East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Hodgson & Stead .. .. .. Regent Road, Manchester
Iamson, Chas., Son & Co. .. .. Darlington
Pooley, Henry, & Son .. .. Albion Foundry, Liverpool
Salter, G., & Co. .. .. .. West Bromwich
Scott, Jas., & Son .. .. .. 10, Tibb Lane, Cross Street, Manchester

Well Engineers.

Isler, C., & Co. .. .. .. 88, Southwark St., London, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Wheels (Geared).

Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Fawcett, Thomas C. .. .. Manor Road, Leeds
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Manlove, Alliott, Fryer, & Co. .. Nottingham
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons, Limited .. Bolton
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Perry, Thomas, & Son .. .. Highfields Works, Bilston
Reichwald, A. .. .. Newcastle-on-Tyne
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Springhill, Birmingham

Wheels (Railway).

Ashbury Railway Carriage and Iron Co., Limited .. .. .. Openshaw, Manchester
Metropolitan Railway Carriage and Wagon Co. .. .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

Wheels (Road) and Axles.

Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.

Whistles (Signal).

Cran, J., & Co. .. .. .. Leith

Winches, Steam.—*(See Cranes).*

Wire and Wire Rope Makers.

Birmingham Battery & Metal Co. Birmingham
Bullivant & Co. .. .. .. 72, Mark Lane, London, E.C.
Cradock, Geo., & Co. .. .. Wakefield
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Warrington Wire Rope Co. .. 13, Goree Piazzas, Liverpool

Wire Making Machinery.

Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Working Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Tramways.

Carrington, W. T. H. .. .. 9 & 11, Fenchurch Avenue, E.C.

Wood Working Machine Makers.

Carrick & Ritchie .. .. .. Waverley Engineering Works Edinburgh
Hindley, E. S. .. .. .. Bourton, Dorset
Marshall, Sons, & Co., Limited .. Gainsborough
M'Dowall, John, & Sons .. .. Johnstone, near Glasgow
Ransome, A., & Co. .. .. Stanley Works, Chelsea
Richards, G., & Co. .. .. Atlantic Works, Broadheath near Manchester
Robinson, Thos., & Son, Limited Rochdale
Sands, H. .. .. Popham Street, Nottingham
Western & Co. .. .. .. Chaddesden Works, Derby
Worssam, Samuel, & Co. .. .. King's Road, Chelsea, S.W.

OFFICES:—35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

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THE following Directory is published to meet the requirements of those who may wish to ascertain at a glance the names of makers of any article advertised in ENGINEERING; for detailed particulars, the advertisements of the Firms indicated in this list may readily be found on reference to the alphabetical index of names published every week on page v. of our advertisements. If the advertisement sought for should not be found in the Number of ENGINEERING in which search is first made, it will probably be in the Number immediately preceding or following, many advertisements being inserted every other week only, whilst some few appear at longer intervals.

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Copies of this DIRECTORY are gratuitously sent, at regular intervals, to the PRINCIPAL HOME AND FOREIGN MERCHANTS, as well as to AGENTS and SHIPPERS OF MACHINERY in this country and abroad; also to the BRITISH CONSULS ABROAD, and to the Heads of Departments of FOREIGN AND COLONIAL RAILWAYS. By this means, in addition to the advantages secured to Advertisers in ENGINEERING by its large and influential circulation, special facilities are afforded for bringing them and intending purchasers into direct connection.

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Aveling & Porter .. .. .. Rochester
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Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
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Robey & Co. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln

Air Compressors.

Adamson, D., & Co. .. .. Dukinfield, Manchester
Brotherhood, P. .. .. .. Belvedere Road, S.E.
Carrick & Wardale .. .. Gateshead
Clayton, Howlett & Venables .. Harrow Road, W.
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Hartley & Arnoux Brothers .. Stoke-on-Trent
Hathorn, Davey & Co. .. .. Leeds
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Oliver & Co., Limited .. .. Chesterfield
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scott, George, & Son .. .. 44, Christian St., London, E
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thwaites Brothers.. .. .. Bradford
Walker Brothers .. .. .. Wigan
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.

Arbitrators.

Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Asbestos Goods.

Bell, John .. .. Asbestos Works, Southwark, S.E.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Auctioneers.

Kirk, W., Price & Goulty .. Albert Square, Manchester

Bag Making Machinery.

Bumsted, F. D. .. .. .. Heanesford, Staffs.

Bars (Steel and Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Landore-Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent
Steel Co. of Scotland .. .. Glasgow
West Cumberland Iron & Steel Co. .. .. Workington

Belts (Driving).

Binney & Son (Linen) .. .. Catherine St., City Rd., E.C.
Fleming, T., Son & Co. .. .. West Grove Mill, Halifax
Gandy, M. .. .. Liverpool
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I. R. G. P. & T. Works Co., Ltd. Silvertown, Essex
Lancashire Patent Belting and Hose Co. .. .. Strangeways, Manchester
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Moseley, David, & Sons .. .. Ardwick, Manchester
Norris, S. E., & Co. .. .. 56, High Street, Shadwell, E.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Patent Anhydrous Leather Co. Portsmouth
Reddaway, F., & Co. .. .. Pendleton, Manchester
Sampson & Co .. .. .. Cross Street, Manchester
Webb & Son.. .. .. .. Combe Tannery, Stowmarket
White, John, & Son .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Bleaching Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester
Musgrave, John, & Sons .. .. Bolton

Blowers.—*(See Fans.)*

Boiler Cleaners.

Nelson, Horatio .. .. .. 90, Worship St., London, E.C.

Boiler Feeders.

Hayes, John .. .. .. 27, Leadenhall Street, E.C.

Boiler Furnaces.

Leeds Forge Co., Limited .. Leeds

Boiler Manholes.

Galloway, W. & J., & Sons .. Manchester
Leeds Forge Co., Limited .. Leeds
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow

Boilers (Steam).

Abbott & Co. .. .. .. Newark-on-Trent
Adamson, D., & Co. .. .. Dukinfield, near Manchester
Adamson, Joseph, & Co. .. .. Hyde, near Manchester
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Appleby Brothers .. .. .. East Greenwich, S.E.
Babcock & Wilcox Co. .. .. 107, Hope Street, Glasgow
Barrow Shipbuilding Co., Ltd. .. Barrow-in-Furness
Beesley & Sons .. .. .. Barrow-in-Furness
Bellamy, John .. .. .. Byng Street, Millwall, E.
Belleville, J., & Co. .. .. à St. Denis, Seine
Blake, J. .. .. Britannia Works, Newton Heath, Manchester
Bodley Brothers & Co. .. .. Exeter
Bone, F. G. .. .. Long Lane, Bermondsey
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Burnet, L., & Co. .. .. .. Govan, Glasgow
Burrell, C., & Sons, Limited .. Thetford
Chaplin, Alex., & Co. .. .. Cranston Hill Engineering Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Copeland, J. & Co. .. .. Dobbie's Loan, Glasgow
Daglish, R., & Co. .. .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Fawcett, Thomas C. .. .. Manor Road, Leeds
Fernihough, John, & Sons .. Stalybridge, Lancashire
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons, Limited .. Leiston Works, Suffolk
Goodwin, J., & Co. .. .. Motherwell, N.B.
Grange Iron Co., Limited .. Durham
Hall, J. & E. .. .. .. Dartford, Kent
Hanna, Donald & Wilson .. Paisley, N.B.
Hardingham, G. G. M. .. .. 191, Fleet Street, London, E.C.
Hartley & Sugden, Limited .. Halifax
Hawksley, Wild & Co. .. .. Sheffield
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hornsby, R., & Sons, Limited .. Grantham
Horton, J. & W. .. .. .. Smethwick, near Birmingham
Isca Foundry & Engineering Co. Newport, Mon.
Lane, Howard, & Co. .. .. Palmerston Buildings, Old Broad Street, E.C.
Leeds Forge Co., Limited .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
Lumby, E., Son & Wood.. .. West Grove Works, Halifax
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Maslove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Oldham Boiler Works Co. .. Oldham
Olrick, L., & Co. .. .. .. 27, Leadenhall Street, E.C.
Patent Steam Boiler Co... .. Heneage Street, Birmingham
Penman & Co. .. .. .. 377, Dalmarnock Rd., Glasgow
Piggott, Thos., & Co. .. .. Springhill, Birmingham
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Reading Ironworks Co., Limited Reading
Robey & Co. .. .. .. Lincoln
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Glasgow
Russell, Geo. & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scriven & Co. .. .. .. Marsh Lane, Leeds
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Vosper & Co. .. .. .. Portsmouth
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Watt, Jas., & Co. .. .. .. 90, Leadenhall Street, E.C.
Wilson, J. H., & Co. .. .. Sandhills, Liverpool
Wilson, Wm. .. .. .. Lillybank Boiler Works, Glasgow
Wood Brothers .. .. .. Valley Ironworks, Sowerby Bridge

Bolts, Rivets, Nuts, Screws, &c.

Clyde Rivet Works Co. .. .. Glasgow
Galloway, W. & J., & Sons .. Manchester
Ibbotson Bros. & Co., Limited .. Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Mercer, E. .. .. Hollinwood, Manchester

Brakes (Railway)

Westinghouse Brake Co... .. Canal Road, King's Cross, N.

Brass Founders and Brass Finishers.

Billington & Newton .. .. Longport, Staffordshire
Bodley Brothers & Co. .. .. Exeter
Cockshott & Jowett .. .. Bradford
Dewrance & Co. .. .. .. 138, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Hughes, J. & J. .. .. .. Birmingham
Hunter & English .. .. .. Bow, E.
Neill & Son .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Storey, L., & Sons .. .. .. Knott Mill, Manchester
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Bread-Making Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Pfleiderer, Paul .. .. .. 86, Upper Ground Street, S.E.

Brewery and Distillery Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hunter & English .. .. .. Bow, London, E.
Woods, H., & Co. .. .. .. Salford, Manchester

Brick and Tile Making Machinery.

Boulton, W. .. .. Burslem, Staffordshire
Clayton, Howlett & Venables .. Harrow Road, London
Fawcett, Thos. C. .. .. .. Manor Road, Leeds
Middleton, Thos., & Co... .. Lemon Street, Southwark, S.E.
Patent Brick Machine Co. .. Middlesbro'-on-Tees
Whitehead, John, & Co... .. Preston, Lancashire

Bricks.

Burham Brick, Lime, & Cement Co... .. .. Nicholas Lane, E.C.
Farnley Iron Co., Limited .. Farnley, near Leeds
Kershaw & Pole .. .. .. 1, Cullum Street, E.C.

Bridge Foundation Cylinders.

Hanna, Donald & Wilson .. Paisley
Stockton Forge Co. .. .. Stockton-on-Tees

Bridges.

Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
De Bergue & Co., Limited .. Manchester
Goodwin, J., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley
Iauson, C., Son, & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Walker Brothers .. .. .. Wigan

Buffers.

Ibbotson Bros. & Co., Limited.. Sheffield
Jones, — .. .. 262, Gresham House, Old Broad Street, E.C.
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.
Turton, T., & Sons .. .. Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy, John .. .. .. Byng Street, Millwall, E.

Cables (Electric Light, Telegraph and Telephone).

Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Carbons for Electrical Purposes (Manufacturers of).

Woodhouse and Rawson .. .. 11, Queen Victoria Street, E.C.

Carriage (Railway) Builders.

Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Falcon Engine and Car Works, Limited .. .. Loughborough
Metropolitan Railway Carriage and Wagon Co., Limited .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co. Limited .. .. Abbey Works, Shrewsbury

Castings (Iron).

Bodley Brothers & Co. .. .. Exeter
Bowling Iron Co., Limited .. Bradford
Carrick & Wardale .. .. Gateshead
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Clayton, Howlett & Venables .. Harrow Road, London, W.
Cockshott & Jowett .. .. Thornton Road, Bradford
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodwin, J., & Co... .. .. Motherwell, N.B.
Harper & Co. .. .. .. Aberdeen
Hind, H., & Son .. .. .. Nottingham
Hunter & English .. .. .. Bow, E.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Macfarlane, Walter, & Co. .. Possilpark, Glasgow
McCulloch, T., & Sons .. .. Kilmarnock
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Castings (Malleable Iron).

Palmer, W. R., Limited .. .. Bagot St. Foundry, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Castings (Steel).

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bowling Iron Co., Limited .. Bradford
Brown, Bayley, Dixon & Co. .. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Hadfield Steel Foundry Co. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Landore-Siemens Steel Co. .. Landore, South Wales
Osborn, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, John, & Sons .. .. Newburn Steelworks, Newcastle-on-Tyne
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, Ltd., The Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Yorkshire Crucible Steel Casting Co. .. .. Dewsbury Road, Leeds

Cement.

Burham Brick, Lime and Cement Co., Limited .. .. Nicholas Lane, E.C.
Francis & Co. .. .. .. Vauxhall, S.W.
Francis, C., Son & Co. .. .. 17, Gracechurch Street, E.C.
Greaves, Bull & Lakin .. .. Warwick
Rugby Portland Cement Co. .. Rugby, Warwickshire
Wouldham Cement Co. .. .. 39, Lime Street, E.C.

Chains and Cables.

Hodgkinson & Co., Limited .. Manchester
Pickering, John, ... Stockton-on-Tees
Whitehouse & Co... .. .. Tipton, Staffordshire
Wright, Jos. & Co. .. .. Tipton, Staffordshire

Chemical Works (Plant for).

Carrick & Wardale .. .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Grange Iron Co., Limited .. Durham
Piggott, Thos., & Co. .. .. Birmingham

Clutches (Friction).

Bagshaw, J., & Sons .. .. Batley
Mather & Platt .. .. .. Salford Ironworks, Manchester

Coal Cutting Machines.

Grange Iron Co., Limited .. Durham

Coal Merchants.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield

Coke Ovens.

Jameson Patent Coking Co. .. St. Nicholas Chambers, Newcastle
Simon, H. .. .. 29, Mount Street, Manchester

Colliery Plant.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Woods, H., & Co. .. .. .. Salford, Manchester

Compasses.
Negretti & Zambra .. .. Holborn Viaduct, E.C.

Condensers (Fresh Water).
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.

Condensers (for Steam Engines).
McCulloch, T., & Sons .. .. Kilmarnock
Morton, Alexr., & Thomson .. 96, Buchanan Street, Glasgow

Coppersmiths.
Birmingham Battery & Metal Co. Birmingham
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Cotton Presses.
Piggott, Thos., & Co. .. .. Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Couplings (Railway).
Roger, Robert, & Co. .. .. Stockton-on-Tees
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.

Cranes, Travellers, Winches, &c.
Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Balmforth, Wm., Executors of (Loco. Steam) .. .. .. Rodley, near Leeds
Butters Brothers .. .. .. 93, Hope Street, Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Fielding & Platt .. .. .. Gloucester
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Ormerod, Grierson & Co. .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, Jthn. .. .. .. Stockton-on Tees
Priestman Brothers .. .. Hull
Ransomes & Sapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Shirlaw, A., & Co.... .. .. Berkley Street, Birmingham
Smith, Thos. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Acme Works, Cardiff
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Cupolas.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Disincrustants.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Hannay's Marine Appliances Co., Limited .. .. 67, Great Clyde Streeet, Glasgow
Patent Steam Boiler Company.. 28, Heneage St., Birmingham
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B , Son & Commans.. 52, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.
Thorp, John B. .. .. .. Copthall House, Telegraph St., Moorgate Street, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Clark, Bunnett & Co., Limited .. Rathbone Place, W.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath

Drying Machines for Textile Materials.
Smith & Johnston.. .. .. Paisley Road, Glasgow

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Gosling, Robert, & Co. .. .. Hatton Court Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lowcock, A... .. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Johnson & Phillips .. .. 14, Union Ct., Old Broad St., E.C.
Paterson & Cooper.. .. .. 76, Little Britain, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons.. .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno. & Co. .. .. .. Albert Engine Works, Leith
Dewrance, John, & Co. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Galloway, W. & J., & Sons .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
M'Neil, C., Jr. .. .. .. Renfrew Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street, E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited.. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neil, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ormerod, Grierson & Co.... .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Wigan

Engines (Gas).
Andrew, J. E. H., & Co... .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros , Limited .. .. Manchester
Müller, H. L. .. .. .. Birmingham
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth, Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. Glasgow
Decauville, Aîné .. .. .. Petit-Bourg, (Seine et Oise), France
Falcon Engine & Car Works, Ltd. Loughborough
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works.. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons, Limited .. Thetford
Cran, John, & Co. .. .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Wood Brothers .. .. .. Valley Ironworks, Sowerby Bridge, Yorkshire
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. a St. Denis, Seine
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. B. .. .. .. Wellingborough
Ransomes, Sims & Jefferies, Ltd Ipswich
Reading Ironworks Co. Ltd. .. Reading
Robey & Co... .. .. .. Lincoln
Euston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. .. Belper
Turner, E. R. & F. .. .. St. Peter's, Ipswich

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan.. .. .. Sentinel Works, Glasgow
Barrows & Stewart .. .. Banbury
Beckwith, E., & Co. .. .. Sunderland
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bumsted, F. D. .. .. .. Hednesford, Staffs.
Carrick & Wardale .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. Barrhead
Coles, H. J... .. .. .. Sumner Street, S.E.
Coley, Henry .. .. .. Mansion House Chambers, 11, Queen Victoria Street, E.C.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Dean, B., & Co. .. .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Fawcett, Thomas, C. .. .. Manor Road, Leeds
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co., Limited .. Durham

Engines (Stationary).—*Continued.*
Hanson, Wm. .. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Heenan & Froude .. .. .. Manchester
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son.. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co.... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd. Ipswich
Robey & Co... .. .. .. Lincoln
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers ... . Eagle Ironworks, Belper
Smith & Johnston.. .. .. Paisley Road, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Willans & Robinson .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Woods, H. & Co. .. .. .. Manchester

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Sons, Limited .. Thetford
Clayton & Shuttleworth.. .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C

Fans and Blowers.
Allday, Wm., Sons, & Limited .. Birmingham
Capell, R. A. .. ..
Donald, J., & Sons .. .. .. 42, Cadogan Street, Glasgow
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Grange Iron Co., Limited .. Durham
McCulloch, T., & Sons .. .. Kilmarnock
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wood, Hamilton & Co. .. .. Salford, Manchester
Wright, Jos., & Co. .. .. Tipton, Staffordshire

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons .. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co... .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Filter Presses.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany

Firebars.
Patent Diagonal Rocking Fire-Bar Co. .. .. 239, Gresham House, E.C.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 1, Cullum Street, E.C.

Fire Engines.
Morris, John .. .. .. Salford, Manchester
Rose, W., & Co .. .. .. Deansgate, Manchester

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. Gloucester

Forges (Portable).
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Landore Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co... .. .. Sheffield
Savile Street Foundry and Engineering Co , Limited.. .. Sheffield
Spencer, J., & Son. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Etna Works, Smethwick, Birmingham
Ianson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Toney & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Salter, Geo., & Co... .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co... .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.

Glass Machinery (Plate).
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N

Governors (Engine).
Blair, George .. .. .. 38, Queen Street, Glasgow
Duncan Bros. (Taite's Electric).. 32, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Killblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Gibbs, Benton .. .. .. St. James' Works, Mill Street, Liverpool
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of).. Rodley, near Leeds
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works Glasgow
Coles, H. J. .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipe (Flax).
Morris, John .. .. .. Salford, Manchester
Richards & Co. .. .. .. Aberdeen
Rose, W., & Co. .. .. .. Deansgate, Manchester

Hydraulic Machinery.
Adamson, D., & Co. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard.. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W

Hydraulic Presses.
Bessemer, Henry, & Co., Limited .. Sheffield
Carrick & Wardale .. .. .. Gateshead-on-Tyne
Coles, H. J. .. .. .. 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Woods, H., & Co. .. .. .. Salford, Manchester

Hydrokineter.
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow

Ice Making Machines.
Piggott, T., & Co. .. .. .. Springhill, Birmingham

India Rubber Goods.
Angus, Geo., & Co. .. .. .. Newcastle-on-Tyne
Harburg India Rubber Comb Co. 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited Silvertown, Essex
MacLellan, George, & Co. .. Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. Edinburgh
Star Rubber Co., The .. .. 131, West Regent St., Glasgow

Indicators (Steam Engine).
Hannan & Buchanan .. .. 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) 65, Queen Victoria Street, E.C.

Injectors.
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Gresham & Craven .. .. .. Manchester
Hancock Inspirator Co. .. .. 108, Upper Thames St., E.C.
Holden & Brooke .. .. .. 8S, Simon Works, Salford
Kirting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Malan, C. S. .. .. .. 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. .. Nottingham
Patent Exhaust Steam Injector Co., Limited .. .. .. 4, St. Ann's Square, Manchester
Schaffer & Budenburg .. .. 8S, Mary Street, Manchester

Insurance Companies.
Employers' Liability Assurance Corporation, Limited .. .. 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited .. .. .. 17, Queen Victoria Street, E.C.

Iron and Steel Works (Plant for).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Davey, Bros., Limited .. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodwin, James, & Co. .. .. Ardrossan, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Thwaites Bros. .. .. .. Bradford
Walker Bros. .. .. .. Wigan
Walker, T., & Co. .. .. .. Leeds
Whitwell, W. (Stoves) .. .. Stockton-on-Tees
Woods, H., & Co. .. .. .. Salford, Manchester

Iron Buildings.
Clark, Bunnett & Co., Limited.. Rathbone Place, W.
Davies Brothers & Co. .. .. Crown Iron Works, Wolverhampton
Davies, M. H. .. .. .. Grange Rd., Bermondsey, S.E.
Dixon, I. .. .. Windsor Ironworks, Liverpool
Lysaght, John, Limited .. .. Bristol
Macfarlane, Walter, & Co. .. Possil Park, Glasgow
Morewood & Co. .. .. .. Soho, Birmingham
Morton, F., & Co., Limited .. Naylor St. Ironworks, Liverpool

Iron Joists (Rolled).
Measures Bros. & Co. .. .. Southwark Street, S.E.

Iron Merchants.
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby

Jacks (Lifting).
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co.... .. .. Berkley Street, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Keys and Pins.
Mills, Jas. (Executors of) .. .. Bredbury, near Stockport
Smith, H. Ford .. .. .. Seddon St., Salford, Manchester

Lamps.
Barnett & Foster .. .. .. 23a, Eagle Wharf Road, N.

Launches and Yachts.
Burnet, L., & Co. .. .. .. Govan, Glasgow
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Cran, J., & Co. .. .. .. Albert Engine Works, Leith
Des Vignes, G. F. G .. .. Chertsey
Edwards & Symes .. .. .. Wharf Rd., Cubitt Town, E.
Forrestt & Son .. .. .. Limehouse, E.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hayes, Ed. .. .. Stony Stratford
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Miller & Tupp .. .. .. Middle Mall, Hammersmith
Paul, M. & Co. .. .. .. Levenford Works, Dumbarton
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Yarrow & Co. .. .. .. Poplar, E.

Laundry Machines.
Manlove, Alliott, Fryer & Co. .. Nottingham

Lead Refiners and Merchants.
Holman, Rogers, Michell & Co. St. Helen's, Lancashire

Leather Machinery.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Stothert & Pitt, Limited .. .. Bath

Lifts.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Hanson, W. .. .. Bradford
Hunter & English .. .. .. Bow, E.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Thomas, T., & Sons .. .. .. Cardiff
Waygood, R., & Co. .. .. Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.
Kell, Thos., & Son.. .. .. 40, King Street, Covent Garden, W.C.

Locomotive Details.
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Bilven's American Lubricating Cream .. .. .. 23, Brunswick St., Liverpool
Bradford, J., & Sons .. .. Liverpool
Crane, P. Moir, & Co., ... Bank Street, Manchester
Engelbert & Co. .. .. .. 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. Battersea, S.W.
Razosine & Co. .. .. .. 7, Idol Lane, E.C.
Wilson, J. Veitch, & Co. .. Glasgow

Lubricators.
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Empire Lubricator Co. .. .. Great Bridgewater Street, Manchester
Foster, Edward, & Son .. .. Halifax
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Nettlefolds, Limited .. .. Birmingham
Trier Brothers .. .. .. 19, St. George St., Westminster
Whitehouse & Co. .. .. .. Tipton Hall Chain Works, Staffordshire

Machine Tools.
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Archdale, Jas., & Co. .. .. Ledsam Street, Birmingham
Askham Bros. & Wilson, Ltd. .. Sheffield
Asquith, W. .. .. Highroad Well Works, Halifax
Barlow, H. B., & Co. .. .. Cornbrook Works, Manchester
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calder Ironworks, Sowerby Bridge
Berry, H. .. .. Crown Works, Hunslet, Leeds
Booth, Geo., & Co... .. .. Halifax
Butterfield, F. & J., & Co. .. Keighley, Yorkshire
Cameron, John .. .. .. Oldfield Road Ironworks, Salford
Churchill, C., & Co. .. .. Cross Street, Finsbury, E.C.
Craig & Donald .. .. .. Johnstone, near Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited .. Manchester
Dron & Lawson .. .. .. Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. .. .. Crown Works, Booth Town, Halifax
Fielding & Platt .. .. .. Gloucester
Galloway, W. & J., & Sons .. Manchester
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Kendall & Gent .. .. .. Victoria Works, Manchester
Lang, J., & Sons .. .. .. Johnstone, N.B.
Lee & Hunt .. .. Arkwright Works, Manchester
London Bros. .. .. Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
McArthur, A., & Son .. .. Johnston, N.B.
Muir, Wm., & Co... .. .. Sherbourne Street, Manchester
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Pitt Bros. .. .. Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate .. Shettleston, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Scott Bros. .. .. West Mount Ironworks, Halifax
Scriven & Co. .. .. .. Leeds Old Foundry, Marsh Lane Leeds
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. .. .. Leeds
Shirlaw, A., & Co... .. .. Suffolk Works, Birmingham
Smith & Coventry.. .. .. Ordsall Lane, Salford, Manchester
Smith & Willshaw.. .. .. Halifax
Tangyes Machine Tool Co., Ltd. Soho, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Widdowson, J. H... .. .. Ordsall Lane, Salford
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Maize Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.
Archbutt, J. & W. E. .. .. Westminster Bridge Road, Lambeth, S.W.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Stanley, W. F. .. .. .. Great Turnstile, Holborn, W.C.

Mattresses (Spring).
Morris, John .. .. .. Salford, Manchester

Metals (Phosphor, Alloys, &c.).
Billington & Newton .. .. Longport, Staffordshire
Cockshott & Jowett .. .. 145, Thornton Road, Bradford
Dick, Alex. .. .. 110, Cannon Street, E.C.
Evans, James, & Co. .. .. Gaythorn, Manchester
Hughes, J. & J. .. .. .. Woodcock Street, Birmingham
Phosphor Bronze Co., Limited.. Sumner Street, S.E.

Meters.
Manchester Water Meter Co., Limited .. .. Ardwick, Manchester

Mill Gearing, Shafting, &c.
Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bodley, Bros., & Co. .. .. Exeter
Brown, Bayley, Dixon & Co. .. Sheffield
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Co. .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Salford
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, John, & Sons .. .. Bolton
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Smethwick, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates & Co. .. .. Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).
Carter, J. H. .. .. 82, Mark Lane, E.C.
Clayton & Shuttleworth.. .. Lincoln
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Herbert & Law .. .. .. Edinburgh
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Son .. .. Kilmarnock
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Ransomes, Head, & Jefferies .. Ipswich
Ruston, Proctor, & Co. .. .. Lincoln
Turner, E. R., & F. .. .. Ipswich

Mills (Paint, Oil, Mortar, &c.).
Butters Brothers .. .. .. Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) Manchester
Rose, Downs, & Thompson .. Hull
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Spencer & Co. .. .. Melksham, Wilts
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Mining Machinery.
Askham Bros. & Wilson, Ltd. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clay Cross Co. .. .. Clay Cross, near Chesterfield
Daglish, R. & Co. .. .. .. St. Helens, Lanc.
Hathorn, Davey & Co. .. .. Leeds
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Robey & Co... .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Walker, Bros. .. .. Wigan

Moulding Machines.
Whittaker, Wm., & Co... .. Oldham

Non-Conducting Compositions.
Anderson, D., & Son, Limited .. Lagan Felt Works, Belfast
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Haacke, A., & Co. .. .. .. 21, Lime Street, E.C.
Keenan, M. .. .. Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. .. .. .. Gray Street, Commercial Rd., E.

Nuts (Finished).
Mercer, Ed. .. .. Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.
Kaye, Jos., & Co. .. .. .. Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Oil Mill Machinery.
Piggott, Thos., & Co. .. .. Birmingham
Rose, Downs & Thompson .. Old Foundry, Hull
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Packing (Engine).
Beldam Packing & Rubber Co... 77, Gracechurch Street, E.C.
Bell, John .. .. Asbestos Works, Southwark
Binney & Son .. .. Catherine St., City Road, E.C.
Lindsay, R. B., & Co. .. .. Plantation Quay (West) Glasgow
Mead, F. M., & Co. .. .. 323b, Kennington Road, S.E.
Tuck & Co., Limited .. .. 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The.. 161, Queen Victoria Street, E.C.

Paints.
Ragosine & Co. .. .. .. 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Paper.
Hodgkinson & Co... .. .. .

Paper Making Machinery.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Kirkcaldy, N.B.

Patent Agents.
Alexander, E. P. .. .. .. 36, Southampton Buildings, W.C.
Allison, Brothers .. .. .. 52, Chancery Lane, W.C.
Brewer & Jensen .. .. .. 33, Chancery Lane, W.C.
Brookes, Wm. .. .. .. 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son .. .. 24, Victoria Chambers, South Parade, Leeds
Harris & Mills .. .. .. 23, Southampton Buildings, W.C.
Horn & Son .. .. 172, Strand, W.C.
Inventors' Patent Right Association, Limited .. .. .. 21, Cockspur Street, S.W.
Phillips & Leigh .. .. .. 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. .. .. .. 4, South Street, Finsbury, E.C.
Rogers, F. M. .. .. .. 21, Finsbury Pavement, E.C.
Thompson & Boult .. .. 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. .. 96, Buchanan Street, Glasgow
Vaughan & Son .. .. .. 57, Chancery Lane, W.C.
Wise, W. Lloyd .. .. .. 46, Lincoln's Inn Fields, W.C.

Patterns.
Ormerod, Grierson & Co... .. Manchester
Walker, E. .. .. Avonside Engine Works, Bristol

Permanent Way.
Askham Bros. & Wilson, Ltd. .. Sheffield
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isca Foundry & Engineering Co. Newport, Monmouthshire
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Railway Sleeper Supply Co., The 17, Gracechurch St., London
Thomson & Browning .. .. 3, Victoria Street, E.C.

Pig Iron Breakers.
Evans, J., & Co. .. .. .. Trumpet Street, Manchester

Pile Drivers.
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham

Piles.
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Pipe Founders.
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. Newport, Monmouthshire

Pipe (Drain) Making Machinery.
Clayton, Howlett & Venables .. Harrow Road, W.

Pipes (Sanitary).
Doulton & Co. .. .. Lambeth, S.E.
Farnley Iron Co., Limited .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow

Pistons and Piston Rings.
Atkins & Co. .. .. .. Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. .. .. Sowerby Bridge
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Lockwood & Carlisle .. .. Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).
Beardmore, I. & W. .. .. Glasgow
Brown, Bayley, Dixon & Co. .. Sheffield
Jessop, Wm., & Sons, Limited Sheffield
Landore Siemens-Steel Co., The.. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co., Limited Stoke-on-Trent
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co., Limited .. .. .. Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.
Bodley Brothers & Co. .. .. Exeter
Boulton, W. .. .. Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.
Farmer, Jas., & Sons .. .. Salford

Propellers.
Ross & Duncan .. .. .. Glasgow
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Pulley Blocks.
Crowley, John, & Co. .. .. Sheffield
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Tangyes Limited .. .. .. Birmingham
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Pulleys (Cast Iron).
Bagshaw, J. & Sons .. .. Batley, Yorkshire
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Iron Works, Oldham
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Fawcett, Thos. C. .. .. .. Manor Road, Leeds
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. Albion Ironworks, Aberdeen
Jackson, P. R., & Co. .. .. Salford Rolling Mill, Manchester
Ormerod, Grierson & Co... .. Hulme, Manchester
Reading Ironworks Co. .. .. Reading
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J. & Co. .. .. .. Hunslet, near Leeds

Pulleys (Wrought Iron).
Bagshaw, J., & Sons .. .. Batley
Crossley, G... .. .. .. Albion Machine Works, Cleckheaton
Hall, J. & E. .. .. .. Dartford Ironworks, Kent
Hudswell, Clark & Co. .. .. Railway Foundry, Leeds
Mackie, J. & J., & Co. .. .. Berks Ironworks, Reading
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Reading Ironworks Co., Ltd. .. Reading

Pumps and Pumping Machinery.
Allen, W. H. & Co. .. .. York Street, Lambeth, S.E.
Cameron, John .. .. .. Old Field Rd. Ironworks, Salford
Carrick & Wardle .. .. .. Gateshead
Chaplin, A., & Co... .. .. Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. Sumner Street, S.E.
Craig, A. F., & Co. .. .. Caledonian Engine Works, Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, Jos., & Sons .. .. Wolverhampton
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Fielding & Platt .. .. .. Gloucester
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley
Hanson, Wm. .. .. Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Ancholme Foundry, Brigg
Hunter & English .. .. .. Bow, E.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.
London, Bros. .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
Mather & Platt .. .. .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neill, W., & Co. .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Pearn, Frank, & Co. .. .. Manchester
Piggott, Thos., & Co. .. .. Birmingham
Pulsometer Engineering Co., Ltd. Nine Elms, S.W.
Ramsbottom, Jno. .. .. .. Saynor Road, Leeds
Ruston, Proctor, & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Simpson & Co. .. .. .. Pimlico, London
Staunah, J. .. .. 29, Southwark Bridge Rd., S.E.
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool
Wood, H., & Co. .. .. .. Salford, Manchester

Pumps (Centrifugal).
Allen, W. H., & Co. .. .. York St. Works, Lambeth, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, J., & Sons .. .. .. Wolverhampton
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Brigg
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers,
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ruston, Proctor & Co. .. .. Lincoln
Simpson & Co. .. .. .. Pimlico, London
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Pumps (Donkey).
Cameron, John .. .. .. Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited .. Coalbrookdale, Staffordshire
Cochrane, John .. .. .. Barrhead, N.B.
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Hanson, W. .. .. Quebec Works, Bradford
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
Loudon Brothers .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Roger, R., & Co. .. .. .. Stockton-on-Tees
Staunah, J. .. .. 29, Southwark Bridge Rd., S.E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Punching and Shearing Machines.
Beckwith, E., & Co. .. .. Sunderland

Railway Agents.
Oldham Brothers .. .. .. 110, Cannon Street, E.C.

Railway and Contractors' Plant.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby
Brown, Bayley, Dixon & Co. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Dailington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Decauville, Aîné .. .. .. Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. .. .. Ardrossan, N.B.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Ransomes & Rapier .. .. .. 5, Westminster Chambers, S.W.
Thomson & Browning .. .. 3, Victoria St., Westminster
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).
Bagnall, W. G. .. .. .. Stafford
Decauville, Aîné .. .. .. Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.
Bodmer & Jones .. .. .. Dashwood House, London, E.C.

Rail Lifters.
De Bergue & Co., Limited . Manchester

Rails (Steel or Iron).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, J., & Son.. .. .. 40e, St. Mary's Gate, Derby
Brown, Bailey, Dixon, & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co. Workington, Cumberland

Reducing Valves.
Hanson, Wm. .. .. Quebec Works, Bradford

Refrigerating Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & E. .. .. .. Dartford Ironworks, Kent

Rice Dressing Machinery.
Copeland, J., & Co. .. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Kirkcaldy, N.B.
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Munslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.
Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. R., Son, & Commans 52, Gracechurch St., E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).
Perry, Thomas, & Son .. .. Highfield Works, Bilston

Roofs (Iron, Steel and Zinc).
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Clarke, Bunnett & Co., Limited Rathbone Place, W.
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lyraght, J., Limited .. .. St. Vincent Works, Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.
The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.
Doulton & Co. .. .. . Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.
Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J., & Co. .. .. .. Sheaf Works, Hunslet Rd., Leeds

Ship Builders.
Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.
Thom, J. .. .. 8, Storey Sq., Barrow-in-Furness

Smiths' Fires.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Soda Water Machinery.
Barnett & Foster .. .. .. 25q, Eagle Wharf Road, N.

Speed Indicators.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.
Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. .. Sheffield
Salter, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos., & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.
Booth, Geo., & Co... .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited.. .. Sheffield
Dudgeon, Richard.. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Paffock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire

Steam Hammers.—*Continued.*
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Wigan Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.
Hanson, W. .. .. .. Quebec Works, Bradford
Lancaster & Tonge.. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steaming Machines.
Smith & Johnston .. .. .. Paisley Road, Glasgow

Steel Makers.
Askham, Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. .. Sheffield
Ibbotson Bros., & Co., Limited.. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.
Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).
Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.
Baxter, W. H., & Co. .. .. Albion Street, Leeds
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Sugar Machinery.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Howlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Surface Plates.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.
Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.
Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son.. .. .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited.. Gainsborough
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Telegraphs (Engine and Steering).
Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Timber Merchants.
Bruce, Geo. .. .. 11, Leadenhall Street, E.C.
Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Tools (Hand and Small).
Bedford, J., & Sons .. .. Lion Works, Sheffield
Chatwin, Thos. .. .. .. 64, Tindal St., Birmingham
Churchill, C., & Co. .. .. 21, Cross Street, Finsbury, E.C.
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co... .. .. Suffolk Works, Birmingham
Smith & Coventry.. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H... .. .. Ordsall Lane, Manchester

Torpedo Boats.
Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.
Askham Bros. & Wilson, Ltd. . Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Tube Cleaners.
Boaz, W. .. .. 29, West India Dock Road

Tubes (Brass).
Birmingham Battery & Metal Co. Birmingham
Munts's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).
Aird, Jos. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Ruthergien, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Lewis, E., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
McGhee, Jas., & Co. .. .. Coatbridge, N.B.
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Weldless Steel Tube Co. .. .. Icknield Port Rd., Birmingham

Tube Expanders.
Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Tube Making Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Tube Wells.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Turbines.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Hanna, Donald & Wilson .. Paisley, N.B.
Hett, C. L. .. .. Ancholme Foundry, Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
McKenzie, Thos., & Sons, Ltd... 16, Holborn Viaduct, E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Stothert & Pitt, Limited.. . Bath

Turnstiles.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tuyeres.
Newlove, R. B., & Co. (Water).. Nottingham

Type Writer.
Witherby & Co. .. .. .. 74, Cornhill, E.C.

Tyres (Railway).
Bessemer, H., & Co., Limited .. Sheffield
Brown, Bailey, Dixon, & Co. .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds

Valuers, Engineering.
Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Valves (Gas, Water, &c.).
Alley & Maclellen .. .. .. Glasgow
Dewrance, J., & Co., ... 158, Great Dover Street, S.E.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Duncan Brothers .. .. .. 32, Queen Victoria Street, E.C.
Foster, Edward, & Son .. .. Halifax
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Hartley & Sugden, Limited .. Halifax
Hunter & English.. .. .. Bow, London, E.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Rhodes, B. .. .. 240, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan
Wood, H., & Co. .. .. .. Salford, Manchester

Valves, Safety.
Adams, Thos. (Executors of) .. West Gorton, Manchester
Turnbull, Alex., & Co. .. .. Glasgow

Ventilators.
Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

Vices.
Crampton Brothers .. .. 25, West Bar Green, Sheffield
Macbrair, W. M. .. .. .. Sheaf Island Works, Sheffield

Vulcanite.
Winter, F. .. .. 138, London Wall, E.C.

Wagon (Railway) Builders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Bagnall, W. C. .. .. .. Stafford
Falcon Engine & Car Works, Ltd. Loughborough
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Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury

Wagons (Tip).
Decauville, Aîné .. .. .. à Petit-Bourg (Seine et Oise), France
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent

Water Closets.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Water Meters.
Manchester Water Meter Co., Ltd. Tipping Street, Ardwick, Manchester

Water Purifying Apparatus.
Porter, John Henderson.. .. 1 & 2, Tudor Street, E.C.

Water Wheels.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Bodley Brothers & Co. .. .. Exeter
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hett, C. L. .. .. Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Stothert & Pitt, Limited.. .. Bath

Weighing Machines.
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Hodgson & Stead .. .. .. Regent Road, Manchester
Ianson, Chas., Son & Co... .. Darlington
Pooley, Henry, & Son .. .. Albion Foundry, Liverpool
Salter, G., & Co. .. .. .. West Bromwich
Scott, Jas., & Son .. .. .. 10, Tibb Lane, Cross Street, Manchester

Well Engineers.
Isler, C., & Co. .. .. .. 88, Southwark St., London, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Wheels (Geared).
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Fawcett, Thomas C. .. .. Manor Road, Leeds
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Manlove, Alliott, Fryer, & Co... Nottingham
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons, Limited.. Bolton
Ormerod, Grierson & Co.. .. Hulme, Manchester
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Rowlandson, W. .. .. .. 13½, Boundary St., Liverpool
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Springhill, Birmingham

Wheels (Railway).
Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Metropolitan Railway Carriage and Wagon Co... .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

Wheels (Road) and Axles.
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.

Whistles (Signal).
Cran, J., & Co. .. .. .. Leith

Winches, Steam.—*(See Cranes).*

Wire and Wire Rope Makers.
Birmingham Battery & Metal Co. Birmingham
Bullivant & Co. .. .. .. 72, Mark Lane, London, E.C.
Cradock, Geo., & Co. .. .. Wakefield
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Warrington Wire Rope Co. .. 13, Goree Piazzas, Liverpool

Wire Making Machinery.
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Working Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Tramways.
Carrington, W. T. H. .. .. 9 & 11, Fenchurch Avenue, E.C.

Wood Working Machine Makers.
Carrick & Ritchie .. .. .. Waverley Engineering Works, Edinburgh
Hindley, E. S. .. .. .. Bourton, Dorset
Marshall, Sons, & Co., Limited.. Gainsborough
M'Dowall, John, & Sons .. .. Johnstone, near Glasgow
Ransome, A., & Co. .. .. Stanley Works, Chelsea
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester
Robinson, Thos., & Son, Limited Rochdale
Sands, H. .. .. Popham Street Nottingham
Worsam, Samuel, & Co... .. King's Road, Chelsea, S.W.

OFFICES:—35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

CLASSIFIED DIRECTORY

OF

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THE following Directory is published to meet the requirements of those who may wish to ascertain at a glance the names of makers of any article advertised in ENGINEERING; for detailed particulars, the advertisements of the Firms indicated in this list may readily be found on reference to the alphabetical index of names published every week on page v. of our advertisements. If the advertisement sought for should not be found in the Number of ENGINEERING in which search is first made, it will probably be in the Number immediately preceding or following, many advertisements being inserted every other week only, whilst some few appear at longer intervals.

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Foster, W., & Co., Limited .. Lincoln
Fowler, J., & Co. .. .. .. Leeds
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hornsby & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ransomes, Head & Jefferies .. Ipswich
Reading Ironworks Co., Limited Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln

Air Compressors.

Adamson, D., & Co. .. .. Dukinfield, Manchester
Brotherhood, P. .. .. .. Belvedere Road, S.E.
Carrick & Wardale .. .. Gateshead
Clayton, Howlett & Venables .. Harrow Road, W.
Coles, H. J. .. .. Sumner Street, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Hathorn, Davey & Co. .. .. Leeds
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Oliver & Co., Limited .. .. Chesterfield
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scott, George, & Son .. .. 44, Christian St., London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thwaites Brothers.. .. .. Bradford
Walker Brothers .. .. .. Wigan
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.

Arbitrators.

Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Asbestos Goods.

Bell, John .. .. Asbestos Works, Southwark, S.E.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Auctioneers.

Kirk, W., Price & Goulty .. Albert Square, Manchester

Bag Making Machinery.

Bunsted, F. D. .. .. .. Hednesford, Staffs.

Bars (Steel and Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Landore-Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent
Steel Co. of Scotland .. .. Glasgow
West Cumberland Iron & Steel Co. .. .. Wokington

Belts (Driving).

Binney & Son (Linen) .. .. Catherine St., City Rd., E.C.
Fleming, T., Son & Co. .. .. West Grove Mill, Halifax
Gandy, M. .. .. Liverpool
Hepburn & Gale, Limited .. .. Long Lane, Southwark
I. R. G. P. & T. Works Co., Ltd. Silvertown, Essex
Lancashire Patent Belting and Hose Co. .. .. Strangeways, Manchester
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Moseley, David, & Sons .. .. Ardwick, Manchester
Norris, S. E., & Co. .. .. 56, High Street, Shadwell, E.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Patent Anhydrous Leather Co. Portsmouth
Reddaway, F., & Co. .. .. Pendleton, Manchester
Sampson & Co .. .. .. Cross Street, Manchester
Webb & Son.. .. .. .. Combs Tannery, Stowmarket
White, John, & Son .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Bleaching Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester
Musgrave, John, & Sons .. .. Bolton

Blowers.—*(See Fans.)*

Boiler Cleaners.

Nelson, Horatio .. .. .. 90, Worship St., London, E.C.

Boiler Furnaces.

Leeds Forge Co., Limited .. Leeds

Boiler Manholes.

Galloway, W. & J., & Sons .. Manchester
Leeds Forge Co., Limited .. Leeds
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow

Boilers (Steam).

Abbott & Co. .. .. .. Newark-on-Trent
Adamson, D., & Co. .. .. Dukinfield, near Manchester
Adamson, Joseph, & Co. .. .. Hyde, near Manchester
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Appleby Brothers .. .. .. East Greenwich, S.E.
Babcock & Wilcox Co. .. .. 107, Hope Street, Glasgow
Barrow Shipbuilding Co., Ltd... Barrow-in-Furness
Beesley & Sons .. .. .. Barrow-in-Furness
Bellamy, John .. .. .. Byng Street, Millwall, E.
Belleville, J., & Co. .. .. à St. Denis, Seine
Blake, J. .. .. Britannia Works, Newton Heath, Manchester
Bodley Brothers & Co. .. Exeter
Bone, F. G... .. .. .. Long Lane, Bermondsey
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Burnet, L., & Co. .. .. .. Govan, Glasgow
Burrell, C., & Sons, Limited .. Thetford
Chaplin, Alex., & Co. .. .. Cranston Hill Engineering Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Copeland, J. & Co. .. .. Dobbie's Loan, Glasgow
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Fernihough, John, & Sons .. Stalybridge, Lancashire
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons, Limited .. Leiston Works, Suffolk
Goodwin, J., & Co. .. .. Motherwell, N.B.
Grange Iron Co., Limited .. Durham
Hall, J. & E. .. .. .. Dartford, Kent
Henna, Donald & Wilson .. Paisley, N.B.
Hardingham, G. G. M. .. .. 191, Fleet Street, London, E.C.
Hartley & Sugden, Limited .. Halifax
Hawkesley, Wild & Co. .. .. Sheffield
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hornsby, R., & Sons, Limited .. Grantham
Horton, J. & W. .. .. .. Smethwick, near Birmingham
Isca Foundry & Engineering Co. Newport, Mon.
Lane, Howard, & Co. .. .. Palmerston Buildings, Old Broad Street, E.C.
Leeds Forge Co., Limited .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
Lumby, E., Son & Wood.. .. West Grove Works, Halifax
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Oldham Boiler Works Co. .. Oldham
Olrick, L., & Co. .. .. .. 27, Leadenhall Street, E.C.
Patent Steam Boiler Co... .. Heneage Street, Birmingham
Penman & Co. .. .. .. 377, Dalmarnock Rd., Glasgow
Piggott, Thos., & Co. .. .. Springhill, Birmingham
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Reading Ironworks Co., Limited Reading
Robey & Co. .. .. Lincoln
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Glasgow
Russell, Geo. & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scriven & Co. .. .. .. Marsh Lane, Leeds
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Vosper & Co. .. .. .. Portsmouth
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Wallace, H., & Co... .. .. Finnieston, Glasgow
Watt, Jas., & Co. .. .. .. 90, Leadenhall Street, E.C.
Whitmore & Binyon .. .. 28, Mark Lane, E.C.
Wilson, J. H., & Co. .. .. Sandhills, Liverpool
Wilson, Wm. .. .. .. Lilybank Boiler Works, Glasgow

Bolts, Rivets, Nuts, Screws, &c.

Clyde Rivet Works Co. .. .. Glasgow
Galloway, W. & J., & Sons .. Manchester
Ibbotson Bros. & Co., Limited .. Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Mercer, E. .. .. Hollinwood, Manchester

Brakes (Railway)

Westinghouse Brake Co... .. Canal Road, King's Cross, N.

Brass Founders and Brass Finishers.

Billington & Newton .. .. Longport, Staffordshire
Bodley Brothers & Co. .. .. Exeter
Cockshott & Jowett .. .. Bradford
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Hughes, J. & J. .. .. .. Birmingham
Hunter & English .. .. .. Bow, E.
Neill & Son .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Storey, L., & Sons .. .. .. Knott Mill, Manchester
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Bread-Making Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Pfleiderer, Paul .. .. .. 86, Upper Ground Street, S.E.

Brewery and Distillery Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hunter & English .. .. .. Bow, London, E.
Moreland, Richard, & Son .. 3, Old Street, E.C.
Woods, H., & Co. .. .. .. Salford, Manchester

Brick and Tile Making Machinery.

Boulton, W. .. .. Burslem, Staffordshire
Clayton, Howlett & Venables .. Harrow Road, London
Middleton, Thos., & Co... .. Leman Street, Southwark, S.E.
Patent Brick Machine Co. .. Middlesbro'-on-Tees
Whitehead, John, & Co... .. Preston, Lancashire

Bricks.

Burham Brick, Lime, & Cement Co... .. .. Nicholas Lane, E.C.
Farnley Iron Co., Limited .. Farnley, near Leeds
Kershaw & Pole .. .. .. 2, Fen Court, Fenchurch St., E.C.
Lowood, J. Grayson, & Co. .. 80, Attercliffe Road, Sheffield

Bridge Foundation Cylinders.

Hanna, Donald & Wilson .. Paisley
Stockton Forge Co. .. .. Stockton-on-Tees

Bridges.

Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
De Bergue & Co., Limited .. Manchester
Eiffel, M. .. .. 46, Rue Fouquet, Levallois-Perret (Seine), France
Goodwin, J., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley
Janson, C., Son, & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Walker Brothers .. .. .. Wigan

Buffers.

Ibbotson Bros. & Co., Limited.. Sheffield
Jones, — .. .. 262, Gresham House, Old Broad Street, E.C.
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.
Turton, T., & Sons .. .. Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy, John .. .. .. Byng Street, Millwall, E.

Cabinet Letter Files.

Cameron, T., Amberg & Co. .. 27, Little Britain, E.C.

Cables (Electric Light, Telegraph and Telephone).

Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Carbons for Electrical Purposes (Manufacturers of).

Woodhouse and Rawson .. .. 11, Queen Victoria Street, E.C.

Carriage (Railway) Builders.

Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Falcon Engine and Car Works, Limited .. .. Loughborough
Metropolitan Railway Carriage and Wagon Co., Limited .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co. Limited .. .. Abbey Works, Shrewsbury

Castings (Iron).

Bodley Brothers & Co. .. .. Exeter
Bowling Iron Co., Limited .. Bradford
Carrick & Wardale .. .. Gateshead
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Clayton, Howlett & Venables .. Harrow Road, London, W.
Cockshott & Jowett .. .. Thornton Road, Bradford
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodwin, J., & Co... .. .. Motherwell, N.B.
Harper & Co. .. .. .. Aberdeen
Hind, H., & Son .. .. .. Nottingham
Hunter & English .. .. .. Bow, E.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Macfarlane, Walter, & Co. .. Possilpark, Glasgow
McCulloch, T., & Sons .. .. Kilmarnock
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Castings (Malleable Iron).

Palmer, W. R., Limited .. .. Bagot St. Foundry, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Castings (Steel).

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bowling Iron Co., Limited .. Bradford
Brown, Bayley, Dixon & Co. .. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Hadfield Steel Foundry Co. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Landore-Siemens Steel Co. .. Landore, South Wales
Osborn, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, John, & Sons .. .. Newburn Steelworks, Newcastle-on-Tyne
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, Ltd., The Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Yorkshire Crucible Steel Casting Co. .. .. Dewsbury Road, Leeds

Cement.

Burham Brick, Lime and Cement Co., Limited .. .. Nicholas Lane, E.C.
Francis & Co. .. .. .. Vauxhall, S.W.
Francis, C., Son & Co. .. .. 17, Gracechurch Street, E.C.
Greaves, Bull & Lakin .. .. Warwick
Rugby Portland Cement Co. .. Rugby, Warwickshire
Wouldham Cement Co. .. .. 39, Lime Street, E.C.

Chains and Cables.

Hodgkinson & Co., Limited .. Manchester
Pickering, Jthn. .. .. .. Stockton-on-Tees
Whitehouse & Co. .. .. .. Tipton, Staffordshire
Wright, Jos. & Co. .. .. .. Tipton, Staffordshire

Chemical Works (Plant for).

Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Grange Iron Co., Limited .. Durham
Piggott, Thos., & Co. .. .. Birmingham

Clutches (Friction).

Bagshaw, J., & Sons .. .. Batley
Mather & Platt .. .. .. Salford Ironworks, Manchester

Coal Cutting Machines.

Grange Iron Co., Limited .. Durham

Coal Merchants.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield

Coke Ovens.

Jameson Patent Coking Co. .. St. Nicholas Chambers, Newcastle
Simon, H. .. .. 20, Mount Street, Manchester

Colliery Plant.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Woods, H., & Co. .. .. .. Salford, Manchester

Compasses.
Negretti & Zambra .. .. Holborn Viaduct, E.C.

Condensers (Fresh Water).
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Suffield & Brown .. .. .. James St. and Devonport St., E.

Condensers (for Steam Engines).
McCulloch, T., & Sons .. .. Kilmarnock
Morton, Alexr., & Thomson .. 96, Buchanan Street, Glasgow
Suffield & Brown .. .. .. James St. and Devonport St., E.

Coppersmiths.
Birmingham Battery & Metal Co. Birmingham
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Cotton Presses.
Piggott, Thos., & Co. .. .. Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Couplings (Railway).
Roger, Robert, & Co. .. .. Stockton-on-Tees
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.

Cranes, Travellers, Winches, &c.
Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Balmforth, Wm., Executors of (Loco. Steam) .. .. .. Rodley, near Leeds
Butters Brothers .. .. .. 93, Hope Street, Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Fielding & Platt .. .. .. Gloucester
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, Jthn. .. .. .. Stockton-on-Tees
Priestman Brothers .. .. Hull
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Shirlaw, A., & Co... .. .. Berkley Street, Birmingham
Smith, Thos. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Acme Works, Cardiff
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Cupolas.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Disincrustants.
Bell, J. .. .. AsbestosWorks, Southwark, S.E.
Patent Steam Boiler Company.. 28, Heneage St., Birmingham
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.
Thorp, John E. .. .. .. Copthall House, Telegraph St., Moorgate Street, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
McIntyre, H., & Co. .. .. Paisley, near Glasgow
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Gosling, Robert, & Co. .. .. Hatton Court, Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lowcock, A... .. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Edmunds & Goolden .. .. 2, Victoria Mansions, S.W.
Johnson & Phillips .. .. 14, Union Ct., Old Broad St., E.C.
Paterson & Cooper.. .. .. 76, Little Britain, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons.. .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno. & Co. .. .. .. Albert Engine Works, Leith
Dewrance, John, & Co. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Galloway, W. & J., & Sons .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street, E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited.. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neil, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ormerod, Grierson & Co... .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Wigan

Engines (Gas).
Andrew, J. E. H., & Co. .. .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros., Limited .. .. Manchester
Müller, H. L. .. .. Birmingham
Okes, J. C. R. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth, Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. .. Glasgow
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Falcon Engine & Car Works, Ltd. Loughborough
Fowler, J., & Co. .. .. .. Leeds
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works.. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons, Limited .. Thetford
Cran, John, & Co. .. .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. à St. Denis, Seine
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. R. .. .. .. Wellingborough
Ransomes, Sims & Jefferies, Ltd Ipswich
Reading Ironworks Co. Ltd. .. Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. .. Belper

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan.. .. .. Sentinel Works, Glasgow
Barrows & Stewart .. .. Banbury
Beckwith, E., & Co. .. .. Sunderland
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bumsted, F. D. .. .. .. Heanesford, Staffs.
Carrick & Wardale .. .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. Barrhead
Coles, H. J... .. .. .. Sumner Street, S.E.
Coley, Henry .. .. .. Mansion House Chambers, 11, Queen Victoria Street, E.C.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Foster, W., & Co., Limited .. Lincoln
Fowler, J., & Co. .. .. .. Leeds
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co. Limited .. Durham
Hanson, Wm. .. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds

Engines (Stationary).—*Continued.*
Heenan & Froude .. .. .. Manchester
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son.. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd. Ipswich
Robey & Co... .. .. .. Lincoln
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Eagle Ironworks, Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Whitmore & Binyon .. .. .. 28, Mark Lane, E.C.
Willans & Robinson .. .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Woods, H. & Co. .. .. .. Manchester

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Sons, Limited .. Thetford
Clayton & Shuttleworth.. .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Fans and Blowers.
Allday, Wm., Sons, & Co. .. Birmingham
Capell, R. A. .. ..
Donald, J., & Sons .. .. 42, Cadogan Street, Glasgow
Donkin, B., & Co... .. .. Bermondsey, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Grange Iron Co., Limited .. Durham
McCulloch, T., & Sons .. .. Kilmarnock
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wood, Hamilton & Co. .. .. Salford, Manchester
Wright, Jos., & Co. .. .. Tipton, Staffordshire

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons .. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co... .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Filter Presses.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany

Firebars.
Patent Diagonal Rocking Fire-Bar Co. .. .. 259, Gresham House, E.C.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 2, Fen Court, Fenchurch St., E.C.
Lowood, J. Grayson, & Co. .. 80, Attercliffe Road, Sheffield

Fire Engines.
Morris, John .. .. .. Salford, Manchester
Rose, W., & Co .. .. .. Deansgate, Manchester

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. .. Gloucester

Forges (Portable).
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Landore Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co... .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, J., & Son. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Elsa Works, Smethwick, Birmingham
Ianson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Tomey & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Salter, Geo., & Co... .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co... .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.
Moreland, Richard, & Son .. 3, Old Street, E.C.

Glass Machinery (Plate)
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N.

Governors (Engine).
Blair, George .. .. .. 32, Queen Street, Glasgow
Duncan Bros. (Taite's Electric).. 32, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Kilblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of).. Rodley, near Leeds
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works Glasgow
Coles, H. J... .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Craig, A. F., & Co. .. .. Paisley, N.B.
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipes.
Morris, John .. .. .. Salford, Manchester
Richards & Co. .. .. .. Aberdeen
Rose, W., & Co. .. .. .. Deansgate, Manchester

Hydraulic Machinery.
Adamson, D., & Co. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
Coles, H. J... .. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W.

Hydraulic Presses.
Bessemer, Henry, & Co., Limited .. Sheffield
Carrick & Wardale .. .. .. Gateshead-on-Tyne
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. .. .. .. Dobbie's Loan, Glasgow
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Woods, H., & Co. .. .. .. Salford, Manchester

Hydrokineter.
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow

Ice Making Machines.
Piggott, T., & Co. .. .. .. Springhill, Birmingham

India Rubber Goods.
Angus, Geo., & Co. .. .. .. Newcastle-on-Tyne
Harburg India Rubber Comb Co. 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited Silvertown, Essex
MacLellan, George, & Co. .. Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. Edinburgh
Star Rubber Co., The .. .. 131, West Regent St., Glasgow

Indicators (Steam Engine).
Hannan & Buchanan .. .. 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) 63, Queen Victoria Street, E.C.

Injectors.
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Gresham & Craven .. .. Manchester
Hancock Inspirator Co. .. .. 108, Upper Thames St., E.C.
Holden & Brooke .. .. .. St. Simon Works, Salford
Korting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Madan, C. S. .. .. .. 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. .. Nottingham
Patent Exhaust Steam Injector Co., Limited .. .. .. 4, St. Ann's Square, Manchester
Schaffer & Budenburg .. .. St. Mary Street, Manchester

Insurance Companies.
Employers' Liability Assurance Corporation, Limited .. .. 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited .. .. .. 17, Queen Victoria Street, E.C.

Iron and Steel Works (Plant for).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Davey, Bros., Limited .. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodwin, James, & Co. .. .. Ardrossan, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Thwaites Bros. .. .. .. Bradford
Walker Bros. .. .. .. Wigan
Walker, T., & Co. .. .. .. Leeds
Whitwell, W. (Stores) .. .. Stockton-on-Tees
Woods, H., & Co. .. .. .. Salford, Manchester

Iron Buildings.
Davies Brothers & Co. .. .. Crown Iron Works, Wolverhampton
Davies, M. H. .. .. .. Grange Rd., Bermondsey, S.E.
Dixon, I. .. .. Windsor Ironworks, Liverpool
Lysaght, John, Limited .. .. Bristol
Macfarlane, Walter, & Co. .. Possil Park, Glasgow
Morewood & Co. .. .. .. Soho, Birmingham
Morton, F., & Co., Limited .. Naylor St. Ironworks, Liverpool

Iron Joists (Rolled).
Measures Bros. & Co. .. .. Southwark Street, S.E.

Iron Merchants.
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby

Jacks (Lifting).
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. .. Berkley Street, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Keys and Pins.
Smith, H. Ford .. .. .. Seddon St., Salford, Manchester

Lamps.
Barnett & Foster .. .. .. 25q, Eagle Wharf Road, N.

Launches and Yachts.
Burnet, L., & Co. .. .. .. Govan, Glasgow
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Cran, J., & Co. .. .. .. Albert Engine Works, Leith
Des Vignes, G. F. G .. .. Chertsey
Edwards & Symes .. .. .. Wharf Rd., Cubitt Town, E.
Forrestt & Son .. .. .. Limehouse, E.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hayes, Ed. .. .. Stony Stratford
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Miller, Tupp & Rouse .. .. Middle Mall, Hammersmith
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Yarrow & Co. .. .. .. Poplar, E.

Laundry Machines.
Manlove, Alliott, Fryer & Co. .. Nottingham

Lead Refiners and Merchants.
Holman, Rogers, Michell & Co. St. Helen's, Lancashire

Leather Machinery.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Stothert & Pitt, Limited .. Bath

Lifts.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Hanson, W. .. .. Bradford
Hunter & English .. .. .. Bow, E.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Thomas, T., & Sons .. .. .. Cardiff
Waygood, R., & Co. .. .. .. Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.
Kell, Thos., & Son .. .. .. 40, King Street, Covent Garden, W.C.

Locomotive Details.
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Bliven's American Lubricating Cream .. .. 23, Brunswick St., Liverpool
Bradford, J., & Sons .. .. Liverpool
Crane, P. Moir, & Co., ... Bank Street, Manchester
Engelbert & Co. .. .. .. 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. Battersea, S.W.
Ragosine & Co. .. .. .. 7, Idol Lane, E.C.
Wilson, J. Veitch, & Co. .. Glasgow

Lubricators.
Blake, J. .. .. Accrington, Lancashire
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Körting Brothers .. .. .. 17, Lancaster Avenue, Man-
Nettlefolds, Limited .. .. Birmingham [chester
Trier Brothers .. .. .. 19, Gt. George St., Westminster
Whitehouse & Co. .. .. .. Tipton Hall Chain Works, Staffordshire

Machine Tools.
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Archdale, Jas., & Co. .. .. Ledsam Street, Birmingham
Askham Bros. & Wilson, Ltd. .. Sheffield
Asquith, W. .. .. Highroad Well Works, Halifax
Barlow, H. B., & Co. .. .. Cornbrook Works, Manchester
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby Bridge
Berry, H. .. .. Croydon Works, Hunslet, Leeds
Booth, Geo., & Co. .. .. .. Halifax
Butterfield, F. & J., & Co. .. Keighley, Yorkshire
Cameron, John .. .. .. Oldfield Road Ironworks, Salford
Churchill, C., & Co. .. .. Cross Street, Finsbury, E.C.
Cowley, John, & Son .. .. Hyde, near Manchester
Craig & Donald .. .. .. Johnstone, near Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited .. Manchester
Dron & Lawson .. .. .. Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. .. .. Crown Works, Booth Town, Halifax
Fielding & Platt .. .. .. Gloucester
Galloway, W. & J., & Sons .. Manchester
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Kendall & Gent .. .. .. Victoria Works, Manchester
Lang, J., & Sons .. .. .. Johnstone, N.B.
Lee & Hunt .. .. Arkwright Works, Manchester
Loudon Bros. .. .. Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
McArthur, A., & Son .. .. Johnston, N.B.
Muir, Wm., & Co. .. .. .. Sherbourne Street, Manchester
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Pitt Bros. .. .. Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Scott Bros. .. .. West Mount Ironworks, Halifax
Scriven & Co. .. .. .. Leeds Old Foundry, Marsh Lane, Leeds
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. .. .. Leeds
Shirlaw, A., & Co. .. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsal Lane, Salford, Manchester
Smith & Willshaw .. .. .. Halifax
Tangyes Machine Tool Co., Ltd. Soho, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Widdowson, J. H. .. .. .. Ordsall Lane, Salford
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Maize Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.
Archbutt, J. & W. E. .. .. Westminster Bridge Road, Lambeth, S.W.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Stanley, W. F. .. .. .. Great Turnstile, Holborn, W.C.

Mattresses (Spring).
Morris, John .. .. .. Salford, Manchester

Metals (Phosphor, Alloys, &c.).
Billington & Newton .. .. Longport, Staffordshire
Cockshott & Jowett .. .. 145, Thornton Road, Bradford
Dick, Alex. .. .. 110, Cannon Street, E.C.
Evans, James, & Co. .. .. Gaythorn, Manchester
Hughes, J. & J. .. .. .. Woodcock Street, Birmingham
Phosphor Bronze Co., Limited .. Sumner Street, S.E.

Meters.
Manchester Water Meter Co., Limited .. .. Ardwick, Manchester

Mill Gearing, Shafting, &c.
Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bodley, Bros., & Co. .. .. Exeter
Brown, Bayley, Dixon & Co. .. Sheffield
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Co. .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Salford
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, John, & Sons .. .. Bolton
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Spring Hill, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Whitmore & Binyon .. .. 28, Mark Lane, E.C.
Yates & Co. .. .. Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).
Clayton & Shuttleworth .. .. Lincoln
Copeland, J., & Co. .. .. Dobbies' Loan, Glasgow
Herbert & Law .. .. .. Edinburgh
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Son .. .. Kilmarnock
Norman, J., & Co. .. .. .. Keppochill Engine Works,
Ransomes, Head, & Jefferies .. Ipswich [Glasgow
Ruston, Proctor, & Co. .. .. Lincoln
Whitmore & Binyon .. .. 28, Mark Lane, E.C.

Mills (Paint, Oil, Mortar, &c.).
Butters Brothers .. .. .. Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) Manchester
Rose, Downs, & Thompson .. Hull
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Spencer & Co. .. .. .. Melkesham, Wilts
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Mining Machinery.
Askham Bros. & Wilson, Ltd. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R. & Co. .. .. .. St. Helens, Lanc.
Hathorn, Davey & Co. .. .. Leeds
Jordan, T. B., Son & Commans. .. 52, Gracechurch Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Robey & Co. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Walker, Bros. .. .. .. Wigan

Moulding Machines.
Whittaker, Wm., & Co. .. .. Oldham

Non-Conducting Compositions.
Anderson, D., & Son, Limited .. Lagan Felt Works, Belfast
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Haacke, A., & Co. .. .. .. 21, Lime Street, E.C.
Keenan, M. .. .. Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. .. .. .. Gray Street, Commercial Rd., E.

Nuts (Finished).
Mercer, Ed. .. .. Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.
Kaye, Jos., & Co. .. .. .. Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Oil Mill Machinery.
Piggott, Thos., & Co. .. .. Birmingham
Rose, Downs & Thompson .. Old Foundry, Hull
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Packing (Engine).
Beldam Packing & Rubber Co. .. 77, Gracechurch Street, E.C.
Bell, John .. .. Asbestos Works, Southwark
Binney & Son .. .. .. Catherine St., City Road, E.C.
Lindsay, R. B., & Co. .. .. Plantation Quay (West) Glasgow
Mead, F. M., & Co. .. .. 223D, Kennington Road, S.E.
Tuck & Co., Limited .. .. 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The .. 161, Queen Victoria Street, E.C.

Paints.
Ragosine & Co. .. .. .. 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Paper.
Hodgkinson & Co. .. ..

Paper Making Machinery.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Kirkcaldy, N.B.

Patent Agents.
Alexander, E. P. .. .. .. 36, Southampton Buildings, W.C.
Allison, Brothers .. .. .. 52, Chancery Lane, W.C.
Brewer & Jensen .. .. .. 33, Chancery Lane, W.C.
Brookes, Wm. .. .. .. 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son .. .. 24, Victoria Chambers, South Parade, Leeds
Harris & Mills .. .. .. 23, Southampton Buildings, W.C.
Horn & Son .. .. 172, Strand, W.C.
Inventors' Patent Right Association, Limited .. .. .. 21, Cockspur Street, S.W.
Phillips & Leigh .. .. .. 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. .. .. .. 4, South Street, Finsbury, E.C.
Rogers, F. M. .. .. .. 21, Finsbury Pavement, E.C.
Thompson & Boult .. .. .. 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. .. 96, Buchanan Street, Glasgow
Vaughan & Son .. .. .. 57, Chancery Lane, W.C.
Wise, W. Lloyd .. .. .. 46, Lincoln's Inn Fields, W.C.

Patterns.
Ormerod, Grierson & Co. .. .. Manchester
Walker, E. .. .. Avonside Engine Works, Bristol

Permanent Way.
Askham Bros. & Wilson, Ltd. .. Sheffield
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isca Foundry & Engineering Co. Newport, Monmouthshire
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Railway Sleeper Supply Co., The 17, Gracechurch St., London
Thomson & Browning .. .. 3, Victoria Street, E.C.

Pig Iron Breakers.
Evans, J., & Co. .. .. .. Trumpet Street, Manchester

Pile Drivers.
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham

Piles.
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Pipe Founders.
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. Newport, Monmouthshire

Pipe (Drain) Making Machinery.
Clayton, Howlett & Venables .. Harrow Road, W.

Pipes (Sanitary).
Doulton & Co. .. .. .. Lambeth, S.E.
Farnley Iron Co., Limited .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow

Pistons and Piston Rings.
Atkins & Co. .. .. .. Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. .. .. Sowerby Bridge
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Lockwood & Carlisle .. .. Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).
Beardmore, I. & W. .. .. Glasgow
Brown, Bayley, Dixon & Co. .. Sheffield
Jessop, Wm., & Sons, Limited Sheffield
Landore Siemens-Steel Co., The .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co., Limited Stoke-on-Trent
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co., Limited .. .. .. Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.
Bodley Brothers & Co. .. .. Exeter
Boulton, W. .. .. Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.
Farmer, Jas., & Sons .. .. Salford

Propellers.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manches-
Ross & Duncan .. .. .. Glasgow [ter
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Pulley Blocks.
Crowley, John, & Co. .. .. Sheffield
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Tangyes Limited .. .. .. Birmingham
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Pulleys (Cast Iron).
Bagshaw, J. & Sons .. .. Batley, Yorkshire
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Iron Works, Oldham
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Jackson, P. R., & Co. .. .. Salford Rolling Mill, Manchester
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Reading Ironworks Co. .. .. Reading
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J. & Co. .. .. .. Hunslet, near Leeds

Pulleys (Wrought Iron).
Bagshaw, J., & Sons .. .. Batley
Crossley, G. .. .. Albion Machine Works, Cleckheaton
Hall, J. & E. .. .. .. Dartford Ironworks, Kent
Hudswell, Clark & Co. .. .. Railway Foundry, Leeds
Okes, J. C. B. .. .. .. 39, Queen Victoria Street, E.C.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Reading Ironworks Co., Ltd. .. Reading

Pumps and Pumping Machinery.
Allen, W. H. & Co. .. .. York Street, Lambeth, S.E.
Cameron, John .. .. .. Old Field Rd. Ironworks, Salford
Carrick & Wardle .. .. .. Gateshead
Chaplin, A., & Co. .. .. .. Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. Sumner Street, S.E.
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co. .. .. .. St. Helen's, Lancashire
Drysdale & Co. .. .. .. Bon Accord Engine Works Glasgow
Evans, Jos., & Sons .. .. Wolverhampton
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Fielding & Platt .. .. .. Gloucester
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley
Hanson, Wm. .. .. .. Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Ancholme Foundry, Brigg
Hunter & English .. .. .. Bow, E.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.
Loudon, Bros. .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
Mather & Platt .. .. .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. B. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Pearn, Frank, & Co. .. .. Manchester
Piggott, Thos., & Co. .. .. Birmingham
Fulsometer Engineering Co., Ltd. Nine Elms, S.W.
Ramsbottom, Jno. .. .. Saynor Road, Leeds
Ruston, Proctor, & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Simpson & Co. .. .. .. Pimlico, London
Stannah, J. .. .. 20, Southwark Bridge Rd., S.E.
Stothert & Pitt, Limited .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool
Wood, H., & Co. .. .. .. Salford, Manchester

Pumps (Centrifugal).
Allen, W. H., & Co. .. .. York St. Works, Lambeth, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, J., & Sons .. .. .. Wolverhampton
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Brigg
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers,
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ruston, Proctor & Co. .. .. Lincoln
Simpson & Co. .. .. .. Pimlico, London
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Pumps (Donkey).
Cameron, John .. .. .. Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited .. Coalbrookdale, Staffordshire
Cochrane, John .. .. .. Barrhead, N.B.
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Hanson, W. .. .. Quebec Works, Bradford
Hathorn, Davey & Co. .. .. Leeds
Loudon Brothers .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. B. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Roger, R., & Co. .. .. .. Stockton-on-Tees
Stannah, J. .. .. 29, Southwark Bridge Rd., S.E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Punching and Shearing Machines.
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby
Fielding & Platt .. .. .. Gloucester [Bridge
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Railway Agents.
Oldham Brothers .. .. .. 110, Cannon Street, E.C.

Railway and Contractors' Plant.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, John, & Son .. .. 40, St. Mary's Gate, Derby
Brown, Bayley, Dixon & Co. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. .. .. Ardrossan, N.B.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Janson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Ransomes & Rapier .. .. .. 5, Westminster Chambers, S.W.
Thomson & Browning .. .. 3, Victoria St., Westminster
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).
Bagnall, W. G. .. .. .. Stafford
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Fowler, J., & Co. .. .. .. Leeds
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.
Bodmer & Jones .. .. .. Dashwood House, London, E.C.

Rail Lifters.
De Bergue & Co., Limited . Manchester

Rails (Steel or Iron).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, J., & Son .. .. .. 402, St. Mary's Gate, Derby
Brown, Bailey, Dixon, & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster,
Hartley & Arnoux Brothers .. Stoke-on-Trent S.W.
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co. Workington, Cumberland

Reducing Valves.
Hanson, Wm. .. .. Quebec Works, Bradford

Refrigerating Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & F. .. .. Dartford Ironworks, Kent

Rice Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. Kirkcaldy, N.B.
Hunter & English .. .. Bow, E.
Landale, James .. .. Kirkcaldy, N.B.
McCulloch, T., & Sons .. Kilmarnock
Norman, John, & Co. .. Keppochill Engine Works, Glasgow
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.
Anderson & Gallwey .. .. Lot's Road, Chelsea, S.W.
Berry, Henry .. .. Croydon Works, Hunslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.
Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son, & Commans 52, Gracechurch St., E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).
Perry, Thomas, & Son .. .. Highfield Works, Bilston

Roofs (Iron, Steel and Zinc).
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, J., Limited .. .. St. Vincent Works, Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.
The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.
Doulton & Co. .. .. . Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.
Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J., & Co. .. .. .. Sheaf Works, Hunslet Rd., Leeds

Ship Builders.
Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.
Thom, J. .. .. 8, Storey Sq., Barrow-in-Furness

Smiths' Fires.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Soda Water Machinery.
Barnett & Foster .. .. .. 25q, Eagle Wharf Road, N.

Speed Indicators.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.
Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. Sheffield
Salter, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos., & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.
Booth, Geo., & Co... .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited.. .. Sheffield
Dudgeon, Richard.. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire

Steam Hammers.—*Continued.*
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.
Blake, J. .. .. Accrington, Lancashire
Hanson, W. .. .. Quebec Works, Bradford
Lancaster & Tonge.. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steel Makers.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. Sheffield
Ibbotson Bros., & Co., Limited.. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.
Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).
Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.
Baxter, W. H., & Co. .. .. Albion Street, Leeds
Brinjes & Goodwin .. .. Whitechapel, E.
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Sugar Machinery.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Hewlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Surface Plates.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.
Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.
Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited.. Gainsborough
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Telegraphs (Engine and Steering).
Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Timber Merchants.
Bruce, Geo. .. .. 11, Leadenhall Street, E.C.
Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Tools (Hand and Small).
Bedford, J., & Sons .. .. Lion Works, Sheffield
Chatwin, Thos. .. .. .. Gt. Tindal St., Birmingham
Churchill, C., & Co. .. .. 21, Cross Street, Finsbury, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co... .. .. Suffolk Works, Birmingham
Smith & Coventry.. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H... .. .. Ordsall Lane, Manchester

Torpedo Boats.
Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co.. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.
Askham Bros. & Wilson, Ltd. . Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Tube Cleaners.
Boaz, W. .. .. 29, West India Dock Road

Tubes (Brass).
Birmingham Battery & Metal Co. Birmingham
Muntz's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).
Aird, Jos. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Ruthergien, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lane, Howard, & Co. .. .. 113 & 116, Palmerston Buildings, London, E.C.
Lewis, E., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
McGhee, Jas., & Co. .. .. Coatbridge, N.B.
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Weldless Steel Tube Co. .. Ickniield Port Rd., Birmingham

Tube Expanders.
Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
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Tube Making Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Tube Wells.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Turbines.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Hanna, Donald & Wilson .. Paisley, N.B.
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King, H. J. H. .. .. .. Stroud, Gloucestershire
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Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Stothert & Pitt, Limited.. . Bath

Turnstiles.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
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Tuyeres.
Newlove, R. R., & Co. (Water).. Nottingham

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Donkin, B., & Co... .. .. Bermondsey, S.E.
Duncan Brothers .. .. .. 32, Queen Victoria Street, E.C.
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Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. Quebec Works, Bradford
Hartley & Sugden, Limited .. Halifax
Hunter & English.. .. .. Bow, London, E.
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Rhodes, B. .. .. 240, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan
Wood, H., & Co. .. .. .. Salford, Manchester

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Adams, Thos. (Executors of) .. West Gorton, Manchester
Blake, J. .. .. Accrington, Lancashire

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Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

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Falcon Engine & Car Works, Ltd. Loughborough
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Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent

Water Closets.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Water Meters.
Manchester Water Meter Co., Ltd. Tipping Street, Ardwick, Manchester

Water Purifying Apparatus.
Porter, John Henderson.. .. 1 & 2, Tudor Street, E.C.

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Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hett, C. L. .. .. Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
Normau, John, & Co. .. .. Keppochill Engine Works, Glasgow
Stothert & Pitt, Limited.. .. Bath

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Pooley, Henry, & Son .. .. Albion Foundry, Liverpool
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Scott, Jas., & Son .. .. .. 10, Tibb Lane, Cross Street, Manchester

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Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

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Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Manlove, Alliott, Fryer, & Co... Nottingham
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons, Limited.. Bolton
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Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
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Staffordshire Wheel & Axle Co. Springhill, Birmingham

Wheels (Railway).
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Metropolitan Railway Carriage and Wagon Co. .. .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

Wheels (Road) and Axles.
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.

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Farmer, Jas., & Sons .. .. Salford, Manchester

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Farmer, Jas., & Sons .. .. Salford, Manchester

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Sands, H. .. .. Popham Street, Nottingham
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Boiler Cleaners.

Nelson, Horatio .. .. .. 90, Worship St., London, E.C.

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Leeds Forge Co., Limited .. Leeds

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Hartley & Sugden, Limited .. Halifax
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Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hornsby, R., & Sons, Limited .. Grantham
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Lumby, E., Son & Wood.. .. West Grove Works, Halifax
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Musgrave, J., & Sons .. .. Bolton
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Oldham Boiler Works Co. .. Oldham
Olrick, L., & Co. .. .. .. 27, Leadenhall Street, E.C.
Patent Steam Boiler Co... .. Heneage Street, Birmingham
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Ruston, Proctor & Co. .. .. Lincoln
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Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
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Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Wallace, H., & Co... .. .. Finnieston, Glasgow
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Whitmore & Binyon .. .. .. 23, Mark Lane, E.C.
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Moreland, Richard, & Son .. 3, Old Street, E.C.

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Clayton, Howlett & Venables .. Harrow Road, London
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Janson, C., Son, & Co. .. .. Darlington
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Clayton, Howlett & Venables .. Harrow Road, London, W.
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Goodwin, J., & Co... .. .. Motherwell, N.B.
Harper & Co. .. .. .. Aberdeen
Hind, H., & Son .. .. .. Nottingham
Hunter & English .. .. .. Bow, E.
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Macfarlane, Walter, & Co. .. Possilpark, Glasgow
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Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
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Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

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Tangyes Limited .. .. .. Cornwall Works, Birmingham

Castings (Steel).

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bowling Iron Co., Limited .. Bradford
Brown, Bayley, Dixon & Co. .. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Haddield Steel Foundry Co. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Landore-Siemens Steel Co. .. Landore, South Wales
Osborn, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, John, & Sons .. .. Newburn Steelworks, Newcastle-on-Tyne
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, Ltd., The Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
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Burham Brick, Lime and Cement Co., Limited .. .. Nicholas Lane, E.C.
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Francis, C., Son & Co. .. .. 17, Gracechurch Street, E.C.
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Whitehouse & Co. .. .. .. Tipton, Staffordshire
Wright, Jos. & Co. .. .. Tipton, Staffordshire

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Bagshaw, J., & Sons .. .. Batley
Mather & Platt .. .. .. Salford Ironworks, Manchester

Coal Cutting Machines.

Grange Iron Co., Limited .. Durham

Coal Merchants.

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Coke Ovens.

Jameson Patent Coking Co. .. St. Nicholas Chambers, Newcastle
Simon, H. .. .. 20, Mount Street, Manchester

Colliery Plant.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Compasses.
Negretti & Zambra .. .. Holborn Viaduct, E.C.

Condensers (Fresh Water).
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Suffield & Brown .. .. .. James St. and Devonport St., E.

Condensers (for Steam Engines).
McCulloch, T., & Sons .. .. Kilmarnock
Morton, Alexr., & Thomson .. 96, Buchanan Street, Glasgow
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Birmingham Battery & Metal Co. Birmingham
Storey, I., & Sons .. .. .. Knott Mill, Manchester

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Tangyes Limited .. .. .. Cornwall Works, Birmingham

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Butters Brothers .. .. .. 93, Hope Street, Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
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East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Fielding & Platt .. .. .. Gloucester
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Iamson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, Jthn. .. .. .. Stockton-on-Tees
Priestman Brothers .. .. Hull
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Shirlaw, A., & Co... .. .. Berkley Street, Birmingham
Smith, Thos. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Acme Works, Cardiff
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Cupolas.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Disincrustants.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Patent Steam Boiler Company.. 28, Heneage St., Birmingham
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.
Thorp, John B. .. .. .. Copthall House, Telegraph St., Moorgate Street, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
McIntyre, H., & Co. .. .. Paisley, near Glasgow
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Gosling, Robert, & Co. .. .. Hatton Court, Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lewcock, A... .. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Edmunds & Goolden .. .. 2, Victoria Mansions, S.W.
Johnson & Phillips .. .. 14, Union Ct., Old Broad St., E.C.
Paterson & Cooper.. .. .. 76, Little Britain, E.C.
Weedon & Irish .. .. .. Electric Works, Sunderland
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons.. .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno. & Co. .. .. .. Albert Engine Works, Leith
Dewrance, Johan, & Co. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Galloway, W. & J., & Sons .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
M'Swin, C., Jr. .. .. .. Kilming Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street, E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited.. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Neil, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ormerod, Grierson & Co... .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Wigan

Engines (Gas).
Andrew, J. E. H., & Co... .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros., Limited .. .. Manchester
Müller, H. L. .. .. Birmingham
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth, Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. Glasgow
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Falcon Engine & Car Works, Ltd. Loughborough
Fowler, J., & Co. .. .. .. Leeds
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works.. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons, Limited .. Thetford
Cran, John, & Co. .. .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. 8 St. Denis, Seine
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. R. .. .. .. Wellingborough
Ransomes, Sims & Jefferies, Ltd Ipswich
Reading Ironworks Co. Ltd. .. Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. .. Belper

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan.. .. .. Sentinel Works, Glasgow
Barr, James.. .. .. .. Kilmarnock
Barrows & Stewart .. .. Banbury
Beckwith, E., & Co. .. .. Sunderland
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bumsted, F. D. .. .. .. Hednesford, Staffs.
Carrick & Wardale .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. .. Barrhead
Coles, H. J... .. .. .. Sumner Street, S.E.
Coley, Henry .. .. .. Mansion House Chambers, 11, Queen Victoria Street, E.C.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Foster, W., & Co., Limited .. Lincoln
Fowler, J., & Co. .. .. .. Leeds
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co. Limited .. .. Durham
Hanson, Wm. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds

Engines (Stationary).—*Continued.*
Heenan & Froude .. .. .. Manchester
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited.. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son.. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co... .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd. Ipswich
Robey & Co... .. .. .. Lincoln
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Eagle Ironworks, Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Whitmore & Binyon .. .. 28, Mark Lane, E.C.
Willans & Robinson .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Sons, Limited .. Thetford
Clayton & Shuttleworth... .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Fans and Blowers.
Allday, Wm., Sons, & Co. .. Birmingham
Capell, R. A. .. ..
Donald, J., & Sons .. .. 42, Cadogan Street, Glasgow
Donkin, B., & Co... .. .. Bermondsey, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Grange Iron Co., Limited .. Durham
McCulloch, T., & Sons .. .. Kilmarnock
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wright, Jos., & Co. .. .. Tipton, Staffordshire

Fencing.
Dennis, W. F., & Co. .. .. 101, Leadenhall Street, E.C.

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons .. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co... .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Filter Presses.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany

Firebars.
Patent Diagonal Rocking Fire-Bar Co. .. .. 239, Gresham House, E.C.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 2, Fen Court, Fenchurch St., E.C.
Lowood, J. Grayson, & Co. .. 80, Attercliffe Road, Sheffield

Fire Engines.
Morris, John .. .. .. Salford, Manchester
Rose, W., & Co .. .. .. Deansgate, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. .. Gloucester

Forges (Portable).
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Lancaster Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, J., & Son. .. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, via Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Etna Works, Smethwick, Birmingham
Iamson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Tomey & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Salter, Geo., & Co... .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co... .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Iamson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.
Moreland, Richard, & Son .. 3, Old Street, E.C.

Glass Machinery (Plate)
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N.

Governors (Engine).
Blair, George .. .. 38, Queen Street, Glasgow
Duncan Bros. (Taite's Electric).. 22, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Kilblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of).. Rodley, near Leeds
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works Glasgow
Coles, H. J. .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Craig, A. F., & Co. .. .. Paisley, N.B.
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipes.
Morris, John .. .. Salford, Manchester
Richards & Co. .. .. .. Aberdeen
Rose, W., & Co. .. .. .. Deansgate, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Hydraulic Machinery.
Adamson, D., & Co. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W.

Hydraulic Presses.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road,
Bessemer, Henry, & Co., Limited Sheffield [Chelsea, S.W.
Carrick & Wardale .. .. Gateshead-on-Tyne
Coles, H. J. .. .. .. 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Drysdale & Co. .. .. .. Bon Accord Engine Works,
Fielding & Platt .. .. .. Gloucester [Glasgow
Middleton, Robert .. .. Sheepscar Foundry, Leeds.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.

Hydraulic Rams.
Blake, John .. .. Accrington, Lancashire

Hydrokineter.
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow

Ice Making Machines.
Piggott, T., & Co. .. .. .. Springhill, Birmingham

India Rubber Goods.
Angus, Geo., & Co. .. .. Newcastle-on-Tyne
Harburg India Rubber Comb Co. 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited Silvertown, Essex
MacLellan, George, & Co. .. Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. Edinburgh
Star Rubber Co., The .. .. 131, West Regent St., Glasgow

Indicators (Steam Engine).
Hannan & Buchanan .. .. 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) 65, Queen Victoria Street, E.C.

Injectors.
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Gresham & Craven .. .. Manchester
Hancock Inspirator Co. .. .. 108, Upper Thames St., E.C.
Holden & Brooke .. .. .. St. Simon Works, Salford
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Madan, C. S. .. .. .. 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. .. Nottingham
Patent Exhaust Steam Injector Co., Limited .. .. .. 4, St. Ann's Square, Manchester
Schaffer & Budenburg .. .. St. Mary Street, Manchester

Insurance Companies.
Employers' Liability Assurance Corporation, Limited .. .. 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited .. .. .. 17, Queen Victoria Street, E.C.

Iron and Steel Works (Plant for).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Davey, Bros., Limited .. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodwin, James, & Co. .. .. Ardrossan, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Thwaites Bros. .. .. .. Bradford
Walker Bros. .. .. .. Wigan
Walker, T., & Co. .. .. .. Leeds
Whitwell, W. (Stoves) .. .. Stockton-on-Tees

Iron Buildings.
Davies Brothers & Co. .. .. Crown Iron Works, Wolverhampton
Davies, M. H. .. .. .. Grange Rd., Bermondsey, S.E.
Dixon, I. .. .. Windsor Ironworks, Liverpool
Lysaght, John, Limited .. .. Bristol
Macfarlane, Walter, & Co. .. Possil Park, Glasgow
Morewood & Co. .. .. .. Soho, Birmingham
Morton, F., & Co., Limited .. Naylor St. Ironworks, Liverpool

Iron Joists (Rolled).
Measures Bros. & Co. .. .. Southwark Street, S.E.
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.

Iron Merchants.
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby

Jacks (Lifting).
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Gibbons, R. C., & Co. .. .. Berkley St., Birmingham
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. .. Berkley Street, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Keys and Pins.
Smith, H. Ford .. .. .. Seddon St., Salford, Manchester

Lamps.
Barnett & Foster .. .. .. 25a, Eagle Wharf Road, N.
Wells, A. C., & Co. .. .. Withy Grove, Manchester

Launches and Yachts.
Burnet, L., & Co. .. .. .. Govan, Glasgow
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works,
Cochran & Co. .. .. .. Birkenhead [Glasgow
Cran, J., & Co. .. .. .. Albert Engine Works, Leith
Des Vignes, G. F. G .. .. Chertsey
Edwards & Symes .. .. .. Wharf Rd., Cubitt Town, E.
Forrestt & Son .. .. .. Limehouse, E.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hayes, Ed. .. .. Stony Stratford
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Miller, Tupp & Rouse .. .. Middle Mall, Hammersmith
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Rose & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Yarrow & Co. .. .. .. Poplar, E.

Laundry Machines.
Manlove, Alliott, Fryer & Co. .. Nottingham

Lead Refiners and Merchants.
Holman, Rogers, Michell & Co. St. Helen's, Lancashire

Leather Machinery.
Drysdale & Co. .. .. .. Bon Accord Engine Works,
Stothert & Pitt, Limited .. Bath [Glasgow

Lifts.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Hanson, W. .. .. Bradford
Hunter & English .. .. .. Bow, E.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Thomas, T., & Sons .. .. Cardiff
Waygood, R., & Co. .. .. Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.
Kell, Thos., & Son .. .. .. 40, King Street, Covent Garden, W.C.

Locomotive Details.
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Bliven's American Lubricating Cream .. .. 23, Brunswick St., Liverpool
Bradford, J., & Sons .. .. Liverpool
Crane, P. Moir, & Co., ... Bank Street, Manchester
Engelbert & Co. .. .. .. 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. Battersea, S.W.
Ragosine & Co. .. .. .. 7, Idol Lane, E.C.
Wilson, J. Veitch, & Co. .. Glasgow

Lubricators.
Blake, J. .. .. Accrington, Lancashire
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Körting Brothers .. .. .. 17, Lancaster Avenue, Man-
Nettlefolds, Limited .. .. Birmingham [chester
Trier Brothers .. .. .. 19, Gt. George St., Westminster
Whitehouse & Co. .. .. .. Tipton Hall Chain Works, Staffordshire

Machine Tools.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Archdale, Jas., & Co. .. .. Ledsam Street, Birmingham
Askham Bros. & Wilson, Ltd. .. Sheffield
Asquith, W. .. .. Highroad Well Works, Halifax
Barlow, H. B., & Co. .. .. Cornbrook Works, Manchester
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby Bridge
Berry, H. .. .. Croydon Works, Hunslet, Leeds
Booth, Geo., & Co. .. .. Halifax
Butterfield, F. & J., & Co. .. Keighley, Yorkshire
Cameron, John .. .. .. Oldfield Road Ironworks, Salford
Churchill, C., & Co. .. .. Cross Street, Finsbury, E.C.
Cowley, John, & Son .. .. Hyde, near Manchester
Craig & Donald .. .. .. Johnstone, near Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited .. Manchester
Dron & Lawson .. .. .. Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. .. .. Crown Works, Booth Town, Halifax
Fielding & Platt .. .. .. Gloucester
Galloway, W. & J., & Sons .. Manchester
Harjers Limited .. .. .. Albion Ironworks, Aberdeen
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Kendall & Gent .. .. .. Victoria Works, Manchester
Lang, J., & Sons .. .. .. Johnstone, N.B.
Lee & Hunt .. .. Arkwright Works, Manchester
London Bros. .. .. .. Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
McArthur, A., & Son .. .. Johnston, N.B.
Muir, Wm., & Co. .. .. .. Sherbourne Street, Manchester
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Pitt Bros. .. .. Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate .. Shettleston, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Scott Bros. .. .. West Mount Ironworks, Halifax
Scriven & Co. .. .. .. Leeds Old Foundry, Marsh Lane, Leeds
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. .. .. Leeds
Shirlaw, A., & Co. .. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsall Lane, Salford, Manchester
Smith & Willshaw .. .. .. Halifax
Tangyes Machine Tool Co., Ltd. Soho, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Widdowson, J. H. .. .. .. Ordsall Lane, Salford
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Maize Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.
Archbutt, J. & W. E. .. .. Westminster Bridge Road, Lambeth, S.W.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Stanley, W. F. .. .. .. Great Turnstile, Holborn, W.C.

Mattresses (Spring).
Morris, John .. .. .. Salford, Manchester

Metals (Phosphor, Alloys, &c.).
Billington & Newton .. .. Longport, Staffordshire
Cockshott & Jowett .. .. 126, Thornton Road, Bradford
Dick, Alex. .. .. 110, Cannon Street, E.C.
Evans, James, & Co. .. .. Gaythorn, Manchester
Hughes, J. & J. .. .. .. Woodcock Street, Birmingham
Phosphor Bronze Co., Limited .. Sumner Street, S.E.

Meters.
Manchester Water Meter Co., Limited .. .. Ardwick, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Mill Gearing, Shafting, &c.
Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bodley, Bros., & Co. .. .. Exeter
Brown, Bayley, Dixon & Co. .. Sheffield
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Co. .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Salford
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, John, & Sons .. .. Bolton
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Spring Hill, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Whitmore & Binyon .. .. 28, Mark Lane, E.C.
Yates & Co. .. .. Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).
Clayton & Shuttleworth .. .. Lincoln
Copeland, J., & Co. .. .. Dobbies' Loan, Glasgow
Herbert & Law .. .. .. Edinburgh
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Son .. .. Kilmarnock
Norman, J., & Co. .. .. .. Keppochill Engine Works,
Ransomes, Head, & Jefferies .. Ipswich [Glasgow
Ruston, Proctor, & Co. .. .. Lincoln
Whitmore & Binyon .. .. 28, Mark Lane, E.C.

Mills (Paint, Oil, Mortar, &c.).
Butters Brothers .. .. .. Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) Manchester
Rose, Downs, & Thompson .. Hull
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Spencer & Co. .. .. Melksham, Wilts
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Mining Machinery.
Askham Bros. & Wilson, Ltd. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R. & Co. .. .. .. St. Helens, Lanc.
Hathorn, Davey & Co. .. .. Leeds
Jordan, T. B., Son & Commans. .. 52, Gracechurch Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Robey & Co. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland St., W.C.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Walker, Bros. .. .. .. Wigan

Moulding Machines.
Whittaker, Wm., & Co. .. .. Oldham

Non-Conducting Compositions.
Anderson, D., & Son, Limited .. Lagan Felt Works, Belfast
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Haacke, A., & Co. .. .. .. 21, Lime Street, E.C.
Keenan, M. .. .. Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. .. .. .. Gray Street, Commercial Rd., E.

Nuts (Finished).
Mercer, Ed. .. .. Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.
Kaye, Jos., & Co. .. .. .. Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Oil Mill Machinery.
Piggott, Thos., & Co. .. .. Birmingham
Rose, Downs & Thompson .. Old Foundry, Hull
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Packing (Engine).
Beldam Packing & Rubber Co. .. 77, Gracechurch Street, E.C.
Bell, John .. .. Asbestos Works, Southwark
Binney & Son .. .. .. Catherine St., City Road, E.C.
Lindsay, R. B., & Co. .. .. Plantation Quay (West) Glasgow
Mead, F. M., & Co. .. .. 323b, Kennington Road, S.E.
Tuck & Co., Limited .. .. 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The .. 161, Queen Victoria Street, E.C.

Paints.
Ragosine & Co. .. .. .. 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Paper.
Hodgkinson & Co. .. .. ..

Paper Making Machinery.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Kirkcaldy, N.B.

Patent Agents.
Alexander, E. P. .. .. .. 36, Southampton Buildings, W.C.
Allison, Brothers .. .. .. 52, Chancery Lane, W.C.
Brewer & Jensen .. .. .. 33, Chancery Lane, W.C.
Brookes, Wm. .. .. .. 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son .. .. 24, Victoria Chambers, South Parade, Leeds
Harris & Mills .. .. .. 23, Southampton Buildings, W.C.
Horn & Son .. .. 172, Strand, W.C.
Inventors' Patent Right Association, Limited .. .. .. 21, Cockspur Street, S.W.
Phillips & Leigh .. .. .. 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. .. .. .. 4, South Street, Finsbury, E.C.
Rogers, F. M. .. .. .. 21, Finsbury Pavement, E.C.
Thompson & Boult .. .. .. 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. .. 96, Buchanan Street, Glasgow
Vaughan & Son .. .. .. 57, Chancery Lane, W.C.
Wise, W. Lloyd .. .. .. 46, Lincoln's Inn Fields, W.C.

Patterns.
Ormerod, Grierson & Co. .. .. Manchester

Permanent Way.
Askham Bros. & Wilson, Ltd. .. Sheffield
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isca Foundry & Engineering Co. Newport, Monmouthshire
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Railway Sleeper Supply Co., The 17, Gracechurch St., London
Thomson & Browning .. .. 3, Victoria Street, E.C.

Pig Iron Breakers.
Evans, J., & Co. .. .. .. Trumpet Street, Manchester

Pile Drivers.
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham

Piles.
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Pipe Founders.
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. Newport, Monmouthshire

Pipe (Drain) Making Machinery.
Clayton, Howlett & Venables .. Harrow Road, W.

Pipes (Sanitary).
Doulton & Co. .. .. .. Lambeth, S.E.
Farnley Iron Co., Limited .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow

Pistons and Piston Rings.
Atkins & Co. .. .. .. Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. .. .. Sowerby Bridge
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Lockwood & Carlisle .. .. Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).
Beardmore, I. & W. .. .. Glasgow
Brown, Bayley, Dixon & Co. .. Sheffield
Jessop, Wm., & Sons, Limited Sheffield
Landore Siemens-Steel Co., The .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co., Limited .. .. .. Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.
Bodley Brothers & Co. .. .. Exeter
Boulton, W. .. .. Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.
Farmer, Jas., & Sons .. .. Salford

Propellers.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manches-
Ross & Duncan .. .. .. Glasgow [ter
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Pulley Blocks.
Crowley, John, & Co. .. .. Sheffield
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Tangyes Limited .. .. .. Birmingham
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Pulleys (Cast Iron).
Bagshaw, J. & Sons .. .. Batley, Yorkshire
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Iron Works, Oldham
Crossley, Geo. .. .. .. Clockheaton, Yorkshire
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Jackson, P. R., & Co. .. .. Salford Rolling Mill, Manchester
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Reading Ironworks Co. .. .. Reading
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J. & Co. .. .. .. Hunslet, near Leeds

Pulleys (Wrought Iron).
Bagshaw, J., & Sons .. .. Batley
Crossley, G. .. .. Albion Machine Works, Cleckheaton
Hall, J. & E. .. .. .. Dartford Ironworks, Kent
Hudswell, Clark & Co. .. .. Railway Foundry, Leeds
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Reading Ironworks Co., Ltd. .. Reading

Pumps and Pumping Machinery.
Allen, W. H. & Co. .. .. York Street, Lambeth, S.E.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Blundell, G. T., & Co. .. .. Limehouse, London
Cameron, John .. .. .. Old Field Rd. Ironworks, Salford
Carrick & Wardle .. .. .. Gateshead
Chaplin, A., & Co. .. .. .. Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. Sumner Street, S.E.
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, Wm. .. .. .. St. Helen's, Lancashire
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, Jos., & Sons .. .. Wolverhampton
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Fielding & Platt .. .. .. Gloucester
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley
Hannay, Wm. .. .. .. Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
Hett, C. L. .. .. Ancholme Foundry, Brigg
Hunter & English .. .. .. Bow, E.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Klein, Schanzlin, & Becker .. Frankenthal (Rheinpfalz), Germany
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.
Loudon, Bros. .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
Mather & Platt .. .. .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Pearn, Frank, & Co. .. .. Manchester
Piggott, Thos., & Co. .. .. Birmingham
Pulsometer Engineering Co., Ltd. Nine Elms, S.W.
Ramsbottom, Jno. .. .. .. Saynor Road, Leeds
Ruston, Proctor, & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Simpson & Co. .. .. .. Pimlico, London
Staunah, J. .. .. 20, Southwark Bridge Rd., S.E.
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Pumps (Centrifugal).
Allen, W. H., & Co. .. .. York St. Works, Lambeth, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, J., & Sons .. .. .. Wolverhampton
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Brigg
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers,
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ruston, Proctor & Co. .. .. Lincoln
Simpson & Co. .. .. .. Pimlico, London
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Pumps (Donkey).
Cameron, John .. .. .. Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited .. Coalbrookdale, Staffordshire
Cochrane, John .. .. .. Barrhead, N.B.
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Hanson, W. .. .. Quebec Works, Bradford
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
London Brothers .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Roger, R., & Co. .. .. .. Stockton-on-Tees
Staunah, J. .. .. 29, Southwark Bridge Rd., S.E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Punching and Shearing Machines.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby
Fielding & Platt .. .. .. Gloucester [Bridge
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Railway Agents.
Oldham Brothers .. .. .. 110, Cannon Street, E.C.

Railway and Contractors' Plant.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby
Brown, Bayley, Dixon & Co. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. .. .. Ardrossan, N.B.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isanson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Ransomes & Rapier .. .. .. 5, Westminster Chambers, S.W.
Thomson & Browning .. .. 3, Victoria St., Westminster
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).
Bagnall, W. G. .. .. .. Stafford
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Fowler, J., & Co. .. .. .. Leeds
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.
Bodmer & Jones .. .. .. Dashwood House, London, E.C.

Rail Lifters.
De Bergue & Co., Limited .. Manchester

Rails (Steel or Iron).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, J., & Son .. .. .. 40e, St. Mary's Gate, Derby
Brown, Bayley, Dixon, & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster,
Hartley & Arnoux Brothers .. Stoke-on-Trent [S.W.
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co. Workington, Cumberland

Reducing Valves.
Hanson, Wm. .. .. .. Quebec Works, Bradford

Refrigerating Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & E. .. .. .. Dartford Ironworks, Kent

Rice Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Kirkcaldy, N.B.
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Sands, Harold .. .. .. Popham Street, Nottingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.
Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son, & Commans 52, Gracechurch St., E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).
Perry, Thomas, & Son .. .. Highfield Works, Bilston

Roofs (Iron, Steel and Zinc).
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Iannson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, J., Limited .. .. St. Vincent Works, Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.
The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.
Doulton & Co. .. .. .. Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.
Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J., & Co. .. .. .. Sheaf Works, Hunslet Rd., Leeds

Ship Builders.
Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.
Thom, J. .. .. 8, Storey Sq., Barrow-in-Furness

Smiths' Fires.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Soda Water Machinery.
Barnett & Foster .. .. .. 25q, Eagle Wharf Road, N.

Speed Indicators.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.
Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. .. Sheffield
Salter, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos. & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.
Booth, Geo., & Co. .. .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited .. .. Sheffield
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.
Blake, J. .. .. Accrington, Lancashire
Hanson, W. .. .. .. Quebec Works, Bradford
Lancaster & Tonge .. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steel Makers.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. .. Sheffield
Ibbotson Bros., & Co., Limited .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.
Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).
Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.
Baxter, W. H., & Co. .. .. Albion Street, Leeds
Brinjes & Goodwin .. .. .. Whitechapel, E.
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Stone Merchants.
Endolithic Co., The .. .. 114a, Queen Victoria St., E.C.

Sugar Machinery.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Howlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Sands, Harold .. .. .. Popham Street, Nottingham
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Surface Plates.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.
Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.
Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited .. Gainsborough
Struthers & Co. .. .. .. 96, Buchanan St., Glasgow

Telegraphs (Engine and Steering).
Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Timber Merchants.
Bruce, Geo. .. .. 11, Leadenhall Street, E.C.
Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Tools (Hand and Small).
Bedford, J., & Sons .. .. Lion Works, Sheffield
Chatwin, Thos. .. .. .. Gt. Tindal St., Birmingham
Churchill, C., & Co. .. .. 21, Cross Street, Finsbury, E.C.
Cowley, John, & Son .. .. Hyde, near Manchester
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co. .. .. Suffolk Works, Birmingham
Smith & Coventry .. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H. .. .. .. Ordsall Lane, Manchester

Torpedo Boats.
Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.
Askham Bros. & Wilson, Ltd. .. Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Tube Cleaners.
Boaz, W. .. .. 29, West India Dock Road

Tube Expanders.
Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Tube Making Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Tube Wells.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tubes (Brass).
Birmingham Battery & Metal Co. Birmingham
Muntz's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).
Aird, Jos. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Ruthergleu, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Lewis, R., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
McGhee, Jas., & Co. .. .. Coatbridge, N.B.
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Weldless Steel Tube Co. .. Ickniield Port Rd., Birmingham

Turbines.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Hanna, Donald & Wilson .. Paisley, N.B.
Hett, C. L. .. .. Ancholme Foundry, Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
McKenzie, Thos., & Sons, Ltd. .. 16, Holborn Viaduct, E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Stothert & Pitt, Limited .. .. Bath

Turnstiles.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tuyeres.
Newlove, E. R., & Co. (Water) .. Nottingham

Tyres (Railway).
Bessemer, H., & Co., Limited .. Sheffield
Brown, Bailey, Dixon, & Co. .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds

Valuers, Engineering.
Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Valves (Gas, Water, &c.).
Alley & Maclellen .. .. .. Glasgow
Dewrance, J., & Co. .. .. 138, Great Dover Street, S.E.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Duncan Brothers .. .. .. 32, Queen Victoria Street, E.C.
Foster, Edward, & Son .. .. Halifax
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Hartley & Sugden, Limited .. Halifax
Hunter & English .. .. .. Bow, London, E.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Rhodes, B. .. .. 240, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan

Valves, Safety.
Adams, Thos. (Executors of) .. West Gorton, Manchester
Blake, J. .. .. Accrington, Lancashire

Ventilators.
Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

Vices.
Crampton Brothers .. .. 25, West Bar Green, Sheffield
Macbrair, W. M. .. .. .. Sheaf Island Works, Sheffield

Vulcanite.
Winter, F. .. .. 138, London Wall, E.C.

Wagon (Railway) Builders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Bagnall, W. C. .. .. .. Stafford
Falcon Engine & Car Works, Ltd. Loughborough
Metropolitan Railway Carriage & Wagon Co., Limited .. .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury

Wagons (Tip).
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent

Water Closets.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Water Meters.
Manchester Water Meter Co., Ltd. Tipping Street, Ardwick, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Water Purifying Apparatus.
Porter, John Henderson .. .. 1 & 2, Tudor Street, E.C.

Water Wheels.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Bodley Brothers & Co. .. .. Exeter
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hett, C. L. .. .. Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Stothert & Pitt, Limited .. .. Bath

Weighing Machines.
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Hodgson & Stead .. .. .. Regent Road, Manchester
Iannson, Chas., Son & Co. .. .. Darlington
Pooley, Henry, & Son .. .. Albion Foundry, Liverpool
Salter, G., & Co. .. .. .. West Bromwich
Scott, Jas., & Son .. .. .. 10, Tibb Lane, Cross Street, Manchester

Well Engineers.
Isler, C., & Co. .. .. .. 88, Southwark St., London, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Wheels (Geared).
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Manlove, Alliott, Fryer, & Co. .. Nottingham
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons, Limited .. Bolton
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Perry, Thomas, & Son .. .. Highfields Works, Bilston
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Springhill, Birmingham

Wheels (Railway).
Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Metropolitan Railway Carriage and Wagon Co. .. .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

Wheels (Road) and Axles.
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.

Whistles (Signal).
Cran, J., & Co. .. .. .. Leith

Winches, Steam.—*(See Cranes).*

Wire and Wire Rope Makers.
Birmingham Battery & Metal Co. Birmingham
Bullivant & Co. .. .. .. 72, Mark Lane, London, E.C.
Cradock, Geo., & Co. .. .. Wakefield
Dennis, W. F., & Co. .. .. 101, Leadenhall Street, E.C.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Warrington Wire Rope Co. .. 13, Goree Piazzas, Liverpool

Wire Making Machinery.
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Working Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Tramways.
Carrington, W. T. H. .. .. 9 & 11, Fenchurch Avenue, E.C.

Wood Working Machine Makers.
Barr, James .. .. Kilmarnock
Blake, J. .. .. Accrington, Lancashire
Carrick & Ritchie .. .. .. Waverley Engineering Works, Edinburgh
Hindley, E. S. .. .. .. Bourton, Dorset
Marshall, Sons, & Co., Limited .. Gainsborough
M'Dowall, John, & Sons .. .. Johnstone, near Glasgow
Ransome, A., & Co. .. .. Stanley Works, Chelsea
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester
Sands, Harold .. .. .. Popham Street, Nottingham
Worsam, Samuel, & Co. .. .. King's Road, Chelsea, S.W.

OFFICES:—35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

CLASSIFIED DIRECTORY

OF

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THE following Directory is published to meet the requirements of those who may wish to ascertain at a glance the names of makers of any article advertised in ENGINEERING; for detailed particulars, the advertisements of the Firms indicated in this list may readily be found on reference to the alphabetical index of names published every week on page v. of our advertisements. If the advertisement sought for should not be found in the Number of ENGINEERING in which search is first made, it will probably be in the Number immediately preceding or following, many advertisements being inserted every other week only, whilst some few appear at longer intervals.

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Copies of this DIRECTORY are gratuitously sent, at regular intervals, to the PRINCIPAL HOME AND FOREIGN MERCHANTS, as well as to AGENTS and SHIPPERS OF MACHINERY in this country and abroad; also to the BRITISH CONSULS ABROAD, and to the Heads of Departments of FOREIGN AND COLONIAL RAILWAYS. By this means, in addition to the advantages secured to Advertisers in ENGINEERING by its large and influential circulation, special facilities are afforded for bringing them and intending purchasers into direct connection.

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Garrett, R., & Sons .. .. Leiston Works, Suffolk
Hornsby & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ransomes, Head & Jefferies .. Ipswich
Reading Ironworks Co., Limited Reading
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln

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Brotherhood, P. .. .. .. Belvedere Road, S.E.
Carrick & Wardale .. .. Gateshead
Clayton, Howlett & Venables .. Harrow Road, W.
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Hartley & Arnoux Brothers .. Stoke-on-Trent
Hathorn, Davey & Co. .. .. Leeds
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Oliver & Co., Limited .. .. Chesterfield
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scott, George, & Son .. .. 44, Christian St., London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Thwaites Brothers.. .. .. Bradford
Walker Brothers .. .. .. Wigan
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.

Arbitrators.

Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Asbestos Goods.

Bell, John .. .. Asbestos Works, Southwark, S.E.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Auctioneers.

Kirk, W., Price & Goulty .. Albert Square, Manchester

Bag Making Machinery.

Bumsted, F. D. .. .. .. Helmesford, Staffs.

Bars (Steel and Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Landore-Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.
Steel Co. of Scotland .. .. Glasgow
West Cumberland Iron & Steel Co. .. .. Wokington

Belts (Driving).

Binney & Son (Linen) .. .. Catherine St., City Rd., E.C.
Fleming, T., Son & Co. .. .. West Grove Mill, Halifax
Gandy, M. .. .. Liverpool
Hepburn & Gale, Limited .. Long Lane, Southwark
I. R. G. P. & T. Works Co., Ltd. Silvertown, Essex
Lancashire Patent Belting and Hose Co. .. .. Strangeways, Manchester
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow
Moseley, David, & Sons .. .. Ardwick, Manchester
Norris, S. E., & Co. .. .. 56, High Street, Shadwell, E.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Patent Anhydrous Leather Co. Portsmouth
Reddaway, F., & Co. .. .. Pendleton, Manchester
Sampson & Co .. .. .. Cross Street, Manchester
Webb & Son.. .. .. .. Combs Tannery, Stowmarket
White, John, & Son .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Bleaching Machinery.

Farmer, Jas., & Sons .. .. Salford, Manchester
Musgrave, John, & Sons .. .. Bolton

Blowers.—*(See Fans.)*

Boiler Cleaners.

Nelson, Horatio .. .. .. 90, Worship St., London, E.C.

Boiler Feeders.

Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Boiler Furnaces.

Leeds Forge Co., Limited .. Leeds

Boiler Manholes.

Galloway, W. & J., & Sons .. Manchester
Leeds Forge Co., Limited .. Leeds
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow

Boilers (Steam).

Abbott & Co. .. .. .. Newark-on-Trent
Adamson, D., & Co. .. .. Dukinfield, near Manchester
Adamson, Joseph, & Co. .. Hyde, near Manchester
Aitken, McNeil & Co. .. .. Hern Street, Govan, Glasgow
Appleby Brothers .. .. .. East Greenwich, S.E.
Babcock & Wilcox Co. .. .. 107, Hope Street, Glasgow
Beesley & Sons .. .. .. Barrow-in-Furness
Bellamy, John .. .. .. Byng Street, Millwall, E.
Belleville, J., & Co. .. .. 8 St. Denis, Seine
Blake, J. .. .. Britannia Works, Newton Heath, Manchester
Bodley Brothers & Co. .. Exeter
Bone, F. G... .. .. .. Long Lane, Bermondsey
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Burnet, L., & Co. .. .. .. Govan, Glasgow
Burrell, C., & Sons, Limited .. Thetford
Chaplin, Alex., & Co. .. .. Cranston Hill Engineering Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Copeland, J. & Co. .. .. Dobbie's Loan, Glasgow
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. Sheffield
Fernihough, John, & Sons .. Stalybridge, Lancashire
Foster, W., & Co., Limited .. Lincoln
Galloway, W. & J., & Sons .. Manchester
Garrett, R., & Sons, Limited .. Leiston Works, Suffolk
Goodwin, J., & Co. .. .. Motherwell, N.B.
Grange Iron Co., Limited .. Durham
Hall, J. & E. .. .. .. Dartford, Kent
Henna, Donald & Wilson .. Paisley, N.B.
Hardingham, G. G. M. .. 191, Fleet Street, London, E.C.
Hartley & Sugden, Limited .. Halifax
Hawkesley, Wild & Co. .. .. Sheffield
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hornsby, R., & Sons, Limited .. Grantham
Horton, J. & W. .. .. .. Smethwick, near Birmingham
Isca Foundry & Engineering Co. Newport, Mon.
Lane, Howard, & Co. .. .. Palmerston Buildings, Old Broad Street, E.C.
Leeds Forge Co., Limited .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
Lumby, E., Son & Wood.. .. West Grove Works, Halifax
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons .. .. Bolton
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Oldham Boiler Works Co. .. Oldham
Olrick, L., & Co. .. .. .. 27, Leadenhall Street, E.C.
Patent Steam Boiler Co... .. Heneage Street, Birmingham
Penman & Co. .. .. .. 377, Dalmarnock Rd., Glasgow
Piggott, Thos., & Co. .. .. Springhill, Birmingham
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Reading Ironworks Co., Limited Reading
Robey & Co. .. .. .. Lincoln
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Glasgow
Russell, Geo. & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.
Scriven & Co. .. .. .. Marsh Lane, Leeds
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Vosper & Co. .. .. .. Portsmouth
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Wallace, H., & Co... .. .. Finneston, Glasgow
Watt, Jas., & Co. .. .. .. 90, Leadenhall Street, E.C.
Whitmore & Binyon .. .. 28, Mark Lane, E.C.
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Bolts, Rivets, Nuts, Screws, &c.

Clyde Rivet Works Co. .. .. Glasgow
Galloway, W. & J., & Sons .. Manchester
Ibbotson Bros. & Co., Limited .. Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Mercer, E. .. .. Hollinwood, Manchester

Brakes (Railway)

Westinghouse Brake Co... .. Canal Road, King's Cross, N.

Brass Founders and Brass Finishers.

Billington & Newton .. .. Longport, Staffordshire
Bodley Brothers & Co. .. .. Exeter
Cockshott & Jowett .. .. Bradford
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Hughes, J. & J. .. .. .. Birmingham
Hunter & English .. .. .. Bow, E.
Neill & Son .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Storey, L., & Sons .. .. .. Knott Mill, Manchester
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Bread-Making Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Pfleiderer, Paul .. .. .. 86, Upper Ground Street, S.E.

Brewery and Distillery Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hunter & English .. .. .. Bow, London, E.
Moreland, Richard, & Son .. 2, Old Street, E.C.
Woods, Hamilton & Co. .. .. Salford, Manchester

Brick and Tile Making Machinery.

Boulton, W. .. .. Burslem, Staffordshire
Clayton, Howlett & Venables .. Harrow Road, London
Middleton, Thos., & Co... .. Leman Street, Southwark, S.E.
Patent Brick Machine Co. .. Middlesbro'-on-Tees
Whitehead, John, & Co... .. Preston, Lancashire

Bricks.

Burham Brick, Lime, & Cement Co... .. .. Nicholas Lane, E.C.
Farnley Iron Co., Limited .. Farnley, near Leeds
Kershaw & Pole .. .. .. 2, Fen Court, Fenchurch St., E.C.
Lowood, J. Grayson, & Co. .. 80, Attercliffe Road, Sheffield

Bridge Foundation Cylinders.

Hanna, Donald & Wilson .. Paisley
Stockton Forge Co. .. .. Stockton-on-Tees

Bridges.

Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
De Bergue & Co., Limited .. Manchester
Eiffel, M. .. .. 46, Rue Fouquet, Levallois-Perret (Seine), France
Goodwin, J., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley
Janson, C., Son, & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Walker Brothers .. .. .. Wigan

Buffers.

Ibbotson Bros. & Co., Limited.. Sheffield
Jones, — .. .. 26½, Gresham House, Old Broad Street, E.C.
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.
Turton, T., & Sons .. .. Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy, John .. .. .. Byng Street, Millwall, E.

Cabinet Letter Files.

Cameron, T., Amberg & Co. .. 27, Little Britain, E.C.

Cables (Electric Light, Telegraph and Telephone).

Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Carbons for Electrical Purposes (Manufacturers of).

Belfast Electric Appliances Co. Limited .. .. 27, Chichester Street, Belfast
Woodhouse and Rawson .. .. 11, Queen Victoria Street, E.C.

Carriage (Railway) Builders.

Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Falcon Engine and Car Works, Limited .. .. Loughborough
Metropolitan Railway Carriage and Wagon Co., Limited .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co. Limited .. .. Abbey Works, Shrewsbury

Castings (Iron).

Bodley Brothers & Co. .. .. Exeter
Bowling Iron Co., Limited .. Bradford
Carrick & Wardale .. .. Gateshead
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Clayton, Howlett & Venables .. Harrow Road, London, W.
Cockshott & Jowett .. .. Thornton Road, Bradford
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodwin, J., & Co... .. .. Motherwell, N.B.
Harper & Co. .. .. .. Aberdeen
Hind, H., & Son .. .. .. Nottingham
Hunter & English .. .. .. Bow, E.
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Macfarlane, Walter, & Co. .. Possilpark, Glasgow
McCulloch, T., & Sons .. .. Kilmarnock
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Castings (Malleable Iron).

Tangyes Limited .. .. .. Cornwall Works, Birmingham

Castings (Steel).

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bowling Iron Co., Limited .. Bradford
Brown, Bayley, Dixon & Co. .. Sheffield
Darlington Steel & Iron Co., Ltd. Darlington
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Hadfield Steel Foundry Co. .. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Landore-Siemens Steel Co. .. Landore, South Wales
Osborn, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Spencer, John, & Sons .. .. Newburn Steelworks, Newcastle-on-Tyne
Stanners Close's Steel Co. .. Wolsingham, viâ Darlington
Steel Co. of Scotland, Ltd., The Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Yorkshire Crucible Steel Casting Co. .. .. Dewsbury Road, Leeds

Cement.

Burham Brick, Lime and Cement Co., Limited .. .. Nicholas Lane, E.C.
Francis & Co. .. .. .. Vauxhall, S.W.
Francis, C., Son & Co. .. .. 17, Gracechurch Street, E.C.
Greaves, Bull & Lakin .. .. Warwick
Rugby Portland Cement Co. .. Rugby, Warwickshire
Wouldham Cement Co. .. .. 30, Lime Street, E.C.

Chains and Cables.

Hodgkinson & Co., Limited .. Manchester
Pickering, John. .. .. .. Stockton-on-Tees
Whitehouse & Co. .. .. .. Tipton, Staffordshire
Wright, Jos. & Co. .. .. Tipton, Staffordshire

Chemical Works (Plant for).

Carrick & Wardale .. .. Gateshead
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Grange Iron Co., Limited .. Durham
Piggott, Thos., & Co. .. .. Birmingham

Clutches (Friction).

Bagshaw, J., & Sons .. .. Batley
Mather & Platt .. .. .. Salford Ironworks, Manchester

Coal Cutting Machines.

Grange Iron Co., Limited .. Durham

Coal Merchants.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield

Coke Ovens.

Simon, H. .. .. 20, Mount Street, Manchester

Colliery Plant.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. .. Sheffield
Goodwin, James, & Co. .. .. Ardrossan, N.B.
Grange Iron Co., Limited .. Durham
Hathorn, Davey & Co. .. .. Leeds
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Woods, Hamilton & Co. .. .. Salford, Manchester

Compasses.
Negretti & Zambra .. .. Holborn Viaduct, E.C.

Condensers (Fresh Water).
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Suffield & Brown .. .. .. James St. and Devonport St., E.

Condensers (for Steam Engines).
McCulloch, T., & Sons .. .. Kilmarnock
Morton, Alexr., & Thomson .. 96, Buchanan Street, Glasgow
Suffield & Brown .. .. .. James St. and Devonport St., E.
Worthington Pumping Engine Co 114, Queen Victoria Street, E.C

Coppersmiths.
Birmingham Battery & Metal Co. Birmingham
Storey, I., & Sons .. .. .. Knott Mill, Manchester

Cotton Presses.
Piggott, Thos., & Co. .. .. Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Couplings (Railway).
Roger, Robert, & Co. .. .. Stockton-on-Tees
Turton, Geo. .. .. .. 4, Westminster Chambers, S.W.

Cranes, Travellers, Winches, &c.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Appleby Brothers .. .. .. East Greenwich, S.E.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Balmforth, Wm., Executors of (Loco. Steam) .. .. .. Rodley, near Leeds
Butters Brothers .. .. .. 93, Hope Street, Glasgow
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochrane, Jno. .. .. .. Barrhead
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Fielding & Platt .. .. .. Gloucester
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Ormerod, Grierson & Co. .. Hulme, Manchester
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Pickering, Jthn. .. .. .. Stockton-on-Tees
Priestman Brothers .. .. Hull
Ransomes & Rapier .. .. 5, Westminster Chambers, S.W.
Roger, R., & Co. .. .. .. Iron Foundry, Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Shirlaw, A., & Co. .. .. .. Berkley Street, Birmingham
Smith, Thos. .. .. Rodley, near Leeds
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Walker, T., & Co. .. .. .. Leeds
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Crankshafts.
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Clarke's Crank Co., Limited .. Lincoln
Mersey Forge, Limited, The .. Liverpool

Crucibles.
Doulton & Co. .. .. .. Lambeth, S.E.

Cupolas.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Disincrustants.
Bell, J. .. .. AsbestosWorks, Southwark, S.E.
Patent Steam Boiler Company .. 28, Henegse St., Birmingham
The Disincrustant Marseillais Co. Cheetham, Manchester

Disinfectors.
Manlove, Alliott, Fryer & Co. .. Nottingham

Disintegrators.
Askham Bros. & Wilson, Ltd. .. Sheffield
Evans, J., & Co. .. .. .. Trumpet St., Gathorne, Manchester
Farmer, Jas., & Sons .. .. Salford, Manchester
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son & Commans. 82, Gracechurch Street, E.C.
Marsden, Francis .. .. .. Sheffield
Triggs, P. (Carr's) .. .. .. 39, Broad Street, Bristol

Distillery Plant.—*(See Brewery and Distillery Plant).*

Distilling (Water) Apparatus.
Chaplin, Alex., & Co. .. .. Glasgow
Normandy, A. .. .. .. Custom House Station, Victoria Docks, E.
Ross & Duncan .. .. .. Glasgow

Diving Apparatus.
Barnett & Foster .. .. .. 252, Eagle Wharf Road, N.

Drawings, Tracings, &c.
Kell, J., & Son .. .. .. 40, King Street, Covent Garden
Messer & Thorpe .. .. .. 8, Quality Court, E.C.
Thorp, John B. .. .. .. Copthall House, Telegraph St., Moorgate Street, E.C.

Dredging Machines.
Bruce & Batho .. .. .. 9, Victoria Chambers, S.W.
Coles, H. J. .. .. 89, Sumner Street, S.E.
Edwards & Symes .. .. .. Wharf Road, Cubitt Town, E.
Fleming & Ferguson .. .. Paisley, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hunter & English .. .. .. Bow, London, E.
McIntyre, H., & Co. .. .. Paisley, near Glasgow
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited .. .. Bath

Ebonite.
Winter, F. .. .. 138, London Wall, E.C.

Economisers (Fuel).
Gosling, Robert, & Co. .. .. Hatton Court, Ipswich
Green, E., & Son .. .. .. St. Ann's Square, Manchester
Lowcock, A. .. .. Coleham Foundry, Shrewsbury
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow

Electric Lighting Plant.
Crompton, R. E., & Co. .. .. Arc Works, Chelmsford
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Electrical Engineers.
Crompton, R. E., & Co. .. .. Mansion House Buildings, E.C.
Edmunds & Goulden .. .. 2, Victoria Mansions, S.W.
Johnson & Phillips .. .. .. 14, Union Ct., Old Broad St., E.C.
Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

Elevators, Grain, Coal, &c.
Priestman Brothers .. .. Hull
Rose, Downs & Thompson .. Old Foundry, Hull

Emery and Emery Cloth.
Acton & Borman .. .. .. 72, Shoe Lane, E.C.
Goldsworthy, T., & Sons .. Hulme, Manchester
Oakey, John, & Sons .. .. Wellington Mills, London, S.E.

Emery Wheels.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Slack's Emery Wheel & Machine Co., Limited .. .. .. Ardwick, Manchester
Sterne, L., & Co., Limited .. Glasgow & London

Engine and Boiler Fittings.
Cran, Jno. & Co. .. .. .. Albert Engine Works, Leith
Dewrance, John, & Co. .. .. 158, Great Dover Street, S.E.
Foster, Edward, & Son .. .. Halifax
Galloway, W. & J., & Sons .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
M'Neil, C., Jr. .. .. .. Kinning Park Ironworks, Glasgow
Picking, Hopkins & Co. .. .. Bow, London, E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Engines (Air).
Tyler, H., & Co. .. .. .. 84, Whitecross Street, E.C.

Engines (Blowing).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Carrick & Wardale .. .. Gateshead
Daglish, R., & Co. .. .. St. Helen's, Lancashire
Davy Brothers, Limited .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodfellow & Matthews .. Hyde, near Manchester
McCulloch, T., & Sons .. Kilmarnock
Neil, W., & Son .. .. .. St. Helen's Junction, Lancashire
Ormerod, Grierson & Co. .. Hulme, Manchester
Savile Street Foundry and Engineering Co., Limited .. Sheffield
Thwaites Brothers .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Wigan

Engines (Gas).
Andrew, J. E. H., & Co. .. Stockport
Barker, T. B., & Co. .. .. Scholefield St., Birmingham
British Gas Engine & Engineering Co. .. .. 11, Queen Victoria Street, E.C.
Crossley Bros., Limited .. Manchester
Müller, H. L. .. .. .. Birmingham
Otto, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Engines (Locomotive).
Appleby Brothers .. .. .. East Greenwich, S.E.
Bagnall, W. G. .. .. .. Stafford
Baldwin Locomotive Works .. Philadelphia, U.S.A.
Balmforth, Wm. (Executors of) Rodley, near Leeds
Black, Hawthorn & Co. .. .. Gateshead-on-Tyne
Chaplin, A., & Co. .. .. Glasgow
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Falcon Engine & Car Works, Ltd. Loughborough
Fowler, J., & Co. .. .. .. Leeds
Grange Iron Co., Limited .. Durham
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hudswell, Clarke & Co. .. .. Leeds
Hunslet Engine Co. .. .. .. Leeds
Jessop, J., & Son .. .. .. Leicester
Kerr, Stuart & Co. .. .. .. 20, Bucklersbury, E.C.
Lowca Engineering Co., Ltd., The Whitehaven
Manning, Wardle & Co. .. .. Boyne Engine Works, Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Rogers Loco. & Machine Works .. Paterson, N.J., U.S.A.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan

Engines (Marine).
Appleby Brothers .. .. .. East Greenwich, S.E.
Burrell, C., & Sons, Limited .. Thetford
Cochran & Co. .. .. .. Birkenhead
Cran, John, & Co. .. .. .. Albert Engine Works, Leith
Hanna, Donald & Wilson .. Paisley, N.B.
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hayes, Ed. .. .. Stony Stratford
Hunter & English .. .. .. Bow, E.
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Plenty & Son .. .. .. Eagle Ironworks, Newbury, Berks
Rankin & Blackmore .. .. Greenock
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Hull
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Wilson, Alex. & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, H. M. .. .. .. Blyth, Northumberland
Yarrow & Co. .. .. .. Isle of Dogs, London, E.

Engines (Portable).
Appleby Brothers .. .. .. East Greenwich, S.E.
Barrows & Stewart .. .. Banbury
Belleville, J. & Co. .. .. à St. Denis, Seine
Clayton & Shuttleworth .. .. Lincoln
Davey, Paxman & Co. .. .. Colchester
Farmer, Robey, Brown & Co. .. Gainsborough
Foster, W., & Co., Limited .. Lincoln
Garrett, E., & Sons .. .. Leiston Works, Suffolk
Hindley, E. S. .. .. .. Bourton, Dorset
Hornsby, R., & Sons, Limited .. Grantham
Marshall, Sons & Co., Limited .. Gainsborough
Mather, G. R. .. .. .. Wellingborough
Ransomes, Sims & Jefferies, Ltd Ipswich
Reading Ironworks Co. Ltd. .. Reading
Robey & Co. .. .. Lincoln
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Smedley Brothers .. .. .. Belper
Turner, E. R. & F. .. .. .. Ipswich

Engines (Rotary).
Heenan & Froude .. .. .. Manchester

Engines (Stationary).
Adamson, D., & Co. .. .. Dukinfield, Manchester
Appleby Brothers .. .. .. East Greenwich, S.E.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Allen & Maclellan .. .. .. Sentinel Works, Glasgow
Barr, James .. .. Kilmarnock
Barrows & Stewart .. .. .. Banbury
Beckwith, E., & Co. .. .. Sunderland
Brotherhood, P. .. .. .. Belvedere Road, Westminster Bridge, S.E.
Buckley and Taylor .. .. Castle Ironworks, Oldham
Bumsted, F. D. .. .. .. Hednesford, Staffs.
Carrick & Wardale .. .. .. Gateshead
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clayton & Shuttleworth .. .. Lincoln
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, J. .. .. Earrhead
Coles, H. J. .. .. Sumner Street, S.E.
Coley, Henry .. .. Mansion House Chambers, 11, Queen Victoria Street, E.C.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co. .. .. .. St. Helen's, Lancashire
Davey, Paxman & Co. .. .. Colchester
Davy Brothers, Limited .. .. Sheffield
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Farmer, Jas., & Sons .. .. Salford, Manchester
Farmer, Robey, Brown & Co. .. Trent Foundry, Gainsborough
Foster, W., & Co., Limited .. Lincoln
Fowler, J., & Co. .. .. .. Leeds
Galloway, W. & J., & Sons .. Manchester
Garrett, E., & Sons .. .. Leiston Works, Suffolk
Goodfellow & Matthews .. .. Hyde, near Manchester
Grange Iron Co. Limited .. Durham

Engines (Stationary).—*Continued.*
Hanson, Wm. .. .. Quebec Works, Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Heenan & Froude .. .. .. Manchester
Herbert & Law .. .. .. Edinburgh
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hindley, E. S. .. .. .. Bourton, Dorset
Holborow & Co. .. .. .. Dudbridge Ironworks, Stroud
Hornsby, R., & Sons, Limited .. Grantham
Hunter & English .. .. .. Bow, E.
Isca Foundry & Engineering Co. Newport, Monmouthshire
Jessop, J., & Son .. .. .. Leicester
Lowca Engineering Co., Ltd., The Whitehaven
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
Manlove, Alliott, Fryer & Co. .. Nottingham
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Musgrave, J., & Sons .. .. Bolton
Neill, Wm., & Son .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Norman, J. & Co. .. .. .. Keppochill Engine Works, Glasgow
Ormerod, Grierson & Co. .. .. Hulme, Manchester
Paul, M., & Co. .. .. .. Dumbarton
Peckett, Thomas .. .. .. Atlas Engine Works, Bristol
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd. Ipswich
Robey & Co. .. .. Lincoln
Roger, R., & Co. .. .. .. Stockton-on-Tees
Rose, Downs & Thompson .. Old Foundry, Hull
Russell, Geo., & Co. .. .. Motherwell, near Glasgow
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Smedley Brothers .. .. .. Eagle Ironworks, Belper
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Turner, E. R. & F. .. .. .. Ipswich
Tyler, H., & Co. .. .. .. 84 & 85, Upper Whitecross Street, E.C.
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds
Whitmore & Binyon .. .. .. 39, Mark Lane, E.C.
Willans & Robinson .. .. .. Thames Ditton, Surrey
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Woods, Hamilton & Co. .. .. Salford, Manchester

Engines (Traction).
Aveling & Porter .. .. .. Rochester
Burrell, C., & Sons, Limited .. Thetford
Clayton & Shuttleworth .. .. Lincoln
Foster, Wm., & Co., Limited .. Lincoln
Fowler, John, & Co. .. .. Leeds
Marshall, Sons & Co. .. .. Gainsborough
Reading Ironworks Co., Ltd. .. Reading

Engravers, Mechanical, &c.
Hare & Co. .. .. 31, Essex Street, Strand
Rimbault, J. H. .. .. .. 30, Maiden Lane, W.C.

Excavators.
Bruce & Batho .. .. .. 9, Victoria Chambers, Westminster, S.W.
Chaplin, Alex., & Co. .. .. Glasgow
Fleming & Ferguson .. .. Paisley, N.B.
Priestman Brothers .. .. 51, Queen Victoria Street, E.C.
Rose, Downs & Thompson .. Hull
Ruston, Proctor & Co. .. .. Sheaf Ironworks, Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Fans and Blowers.
Allday, Wm., Sons, & Co. .. Birmingham
Capell, R. A. .. .. 42, Cadogan Street, Glasgow
Donald, J., & Sons .. .. .. Paisley, N.B.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Grange Iron Co., Limited .. Durham
McCulloch, T., & Sons .. .. Kilmarnock
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Schiele, C., & Co. .. .. .. 2, Clarence Buildings, Manchester
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Union Engineering Co. .. .. Booth Street, Manchester
Walker Brothers .. .. .. Wigan

Feed-Water Heaters.
British Gas Engine & Engineering Co. .. .. .. 11, Queen Victoria Street, E.C.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Wright, Jos., & Co. .. .. Tipton, Staffordshire
Woods, Hamilton & Co. .. .. Salford, Manchester

Fencing.
Dennis, W. F., & Co. .. .. 101, Leadenhall Street, E.C.

Files and File Sharpening Apparatus.
Bedford, J., & Sons .. .. Lion Works, Sheffield
Jowitt, T., & Sons .. .. .. Sheffield
Tilghman Patent Sand Blast Co., Sheffield

Filtering Apparatus.
Halliday, J., & Co. .. .. .. Water Street, Newtown, Manchester
Pulsometer Engineering Co. .. Nine Elms, S.W.

Fire Clay Goods.
Farnley Iron Co. .. .. .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow
Kershaw & Pole .. .. .. 2, Fen Court, Fenchurch St., E.C.
Lowood, J. Grayson, & Co. .. 80, Attercliffe Road, Sheffield

Fire Engines.
Morris, John .. .. Salford, Manchester
Rose, W., & Co. .. .. .. Deansgate, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Floor Cloth Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester
Landale, James .. .. .. Kirkcaldy, N.B.
Summers, T. & W. .. .. .. Gloucester

Forges (Portable).
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Forgings (Iron and Steel).
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Glasgow
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bailey, Dixon & Co. .. Sheffield
Clarke's Crank Co. .. .. Lincoln
Glasgow Hydraulic Forge Co. .. Sentinel Works, Polmadie, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hill & Smith .. .. .. Brierley Hill Ironworks, near Dudley
Ibbotson Brothers & Co., Ltd. .. Sheffield
Jackson, F. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, Wm., & Sons .. .. Sheffield
Kirkstall Forge Co. .. .. Near Leeds
Landore Siemens Steel Co. .. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Mersey Forge, Limited, The .. Liverpool
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Osborne, S., & Co. .. .. .. Sheffield
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Spencer, J., & Son. .. .. .. Newcastle-on-Tyne
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham
Stanners Close's Steel Co. .. Wolsingham, via Darlington
Steel Co. of Scotland, The .. Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Furnace Fittings.
Galloway, W. & J., & Sons .. Manchester
Martin, W. A. & Co. .. .. Pocock Street, S.E.

Galvanised Iron.
Hill & Smith .. .. .. Tipton, Staffordshire
Lysaght, John, Limited .. .. Bristol
Morewood & Co. .. .. .. Soho, Birmingham

Gas Exhausters.
Donkin, B., & Co. .. .. .. Bermondsey, S.E.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield

Gas Works (Plant for).
Dowson Economic Gas Co., Ltd., 3, Great Queen Street, Westminster, S.W.
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley, N.B.
Horton, J. & W. .. .. .. Etna Works, Smethwick, Birmingham
Ianson, C., Son, & Co. .. .. Darlington
Müller, H. L. .. .. Birmingham
Piggott, Thos., & Co. .. .. Springhill, Birmingham

Gauge Glasses.
Martin, Guilbert .. .. .. 1 & 2, Falcon Street, E.C.
Moncrieff, John .. .. .. Nth. Brit. Glass Works, Perth
Tomey & Sons .. .. .. Tay Glass Works, Perth, N.B.
Tomey, Jos., & Sons .. .. Manor Glass Works, Aston, Birmingham

Gauges (Pressure).
Dewrance & Co. .. .. .. 158, Great Dover Street, S.E.
Negretti & Zambra .. .. .. Holborn Viaduct, E.C.
Salter, Geo., & Co. .. .. West Bromwich
Schaffer & Budenberg .. .. 1, Southgate, Manchester

Gearing.—*(See Wheels, Geared.)*

Girders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies Bros. & Co. .. .. .. Crown Ironworks, Wolverhampton
De Bergue & Co., Limited .. Manchester
Goodwin, James, & Co. .. .. Motherwell, N.B.
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, John, Limited .. .. Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Measures, Bros. & Co. .. .. Southwark St., S.E.
Moreland, Richard, & Son .. 3, Old Street, E.C.

Glass Machinery (Plate)
Daglish, R., & Co. .. .. .. St. Helen's, Lancashire
Musgrave, J., & Sons .. .. Bolton

Glazing.
Braby & Son .. .. 356, Euston Road, London
Grover & Co., Limited .. .. Britannia Works, Wharf Rd., N.

Governors (Engine).
Blair, George .. .. 38, Queen Street, Glasgow
Duncan Bros. (Taite's Electric) .. 32, Queen Victoria Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Murdoch, Wm., & Co. .. .. 30, Hope Street, Glasgow
Schaffer & Budenberg .. .. Manchester
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Whitley Partners .. .. .. Hunslet Road, Leeds

Grindstones.
Akeroyd, James, & Sons .. .. Harehills, near Leeds
Robson, Robert .. .. .. 21, Grainger Street, West, Newcastle-on-Tyne

Gunpowder Machinery.
Hall, J. & E. .. .. Dartford, Kent
Hastie, J., & Co. .. .. .. Kilblain Engine Works, Greenock.
Savile Street Foundry and Engineering Co., Limited .. .. Sheffield
Taylor & Challen .. .. .. Birmingham

Hammers (Hydraulic).
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Hammers (Power).
Player, W. & J. .. .. .. Lionel Street, Birmingham
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Hammers (Steam).—*(See Steam Hammers.)*

Heating Apparatus.
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Thames Bank Iron Co., The .. Upper Ground Street, S.E.

Hematite Pig Iron.
West Cumberland Iron & Steel Co. .. .. Workington, Cumberland

Hoisting Machinery.
Appleby Brothers .. .. .. East Greenwich, S.E.
Balmforth Wm. (Executors of) .. Rodley, near Leeds
Carrick & Ritchie .. .. .. Edinburgh
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coles, H. J. .. .. Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Craig, A. F., & Co. .. .. .. Paisley, N.B.
Crowley, John, & Co. .. .. Sheffield
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham
Glover, Walter T., & Co. .. 25, Booth Street, Manchester
Hunter & English .. .. .. Bow, E.
Jessop, J., & Son .. .. .. Leicester
Melville, W. M. .. .. .. Kirkcaldy
Pickering, Jthn. .. .. .. Stockton-on-Tees
Priest, Rowland .. .. .. Cradley Heath, Staffs.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Waygood, E., & Co. .. .. Newington Works, Falmouth Street, S.E.

Hoops for Boiler Flues.
Bolton Iron & Steel Co. .. .. Bolton
Bowling Iron Co., Limited .. Bradford

Hose Pipes.
Morris, John .. .. Salford, Manchester
Rothorn & Co. .. .. Aberdeen
Rose, W., & Co. .. .. .. Deansgate, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Hydraulic Machinery.
Adamson, D., & Co. .. .. .. Dukinfield, Manchester
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Berry, Henry .. .. Croydon Works, Hunslet, Leeds
Coles, H. J. .. .. 89, Sumner Street, S.E.
Cowans, Sheldon & Co., Limited St. Nicholas Works, Carlisle
Drysdale & Co. .. .. Bon Accord Engine Works, Glasgow
Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Fielding & Platt .. .. .. Gloucester
Hathorn, Davey & Co. .. .. Leeds
Middleton, Robert .. .. .. Sheepscar Foundry, Leeds
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ramsbottom, J. .. .. .. Hunslet, Leeds
Rose, Downs & Thompson .. .. Old Foundry, Hull
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Williams, W. L. .. .. .. 2, Westminster Chambers, S.W.

Hydraulic Presses.

Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Bessemer, Henry, & Co., Limited Sheffield
Carrick & Wardale .. .. Gateshead-on-Tyne
Coles, H. J. .. .. .. 89, Sumner St., Southwark, S.E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Middleton, Robert .. .. Sheepscar Foundry, Leeds.
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Rose, Downs & Thompson .. Old Foundry, Hull
Stothert & Pitt, Limited.. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Woods, Hamilton & Co. .. .. Salford, Manchester

Hydraulic Rams.

Blake, John.. .. .. .. Accrington, Lancashire

Hydroknicter.

Weir, G. & J. .. .. .. 49, Jamaica Street, Glasgow

Ice Making Machines.

Piggott, T., & Co. .. .. .. Springhill, Birmingham

Incandescent Electric Lamps.

Woodhouse & Rawson .. .. 11, Queen Victoria Street, E.C.

India Rubber Goods.

Angus, Geo., & Co. .. .. Newcastle-on-Tyne
Hanbury India Rubber Comb Co. 138, London Wall, E.C.
India Rubber, Gutta Percha & Telegraph Works Co., Limited Silvertown, Essex
MacLellan, George, & Co. .. Glasgow Rubber Works, Glasgow
North British Rubber Co., Ltd. Edinburgh
Star Rubber Co., The .. .. 131, West Regent St., Glasgow

Indicators (Steam Engine).

Hannan & Buchanan .. .. 75, Robertson Street, Glasgow
Taite & Carlton (Stroudley's Speed) 65, Queen Victoria Street, E.C.

Injectors.

Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Gresham & Craven .. .. Manchester
Hancock Inspirator Co. .. .. 108, Upper Thames St., E.C.
Holden & Brooke .. .. .. 8t. Simon Works, Salford
Korting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Madan, C. S. .. .. .. 21, Mansfield Chambers, St. Anne's Square, Manchester
Manlove, Alliott, Fryer & Co. .. Nottingham
Patent Exhaust Steam Injector Co., Limited .. .. .. 4, St. Ann's Square, Manchester
Schaffer & Budenburg .. .. 8t. Mary Street, Manchester

Insurance Companies.

Employers' Liability Assurance Corporation, Limited .. .. 84 & 85, King William Street, E.C.
London Mutual Boiler Insurance Co., Limited .. .. .. 17, Queen Victoria Street, E.C.

Iron and Steel Works (Plant for).

Adamson, D., & Co. .. .. Dukinfield, Manchester
Davey, Bros., Limited .. .. Sheffield
Galloway, W. & J., & Sons .. Manchester
Goodwin, James, & Co. .. .. Ardrossan, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Thwaites Bros. .. .. .. Bradford
Walker Bros. .. .. .. Wigan
Walker, T., & Co. .. .. .. Leeds
Whitwell, W. (Stoves) .. .. Stockton-on-Tees
Woods, Hamilton & Co. .. .. Salford, Manchester

Iron Buildings.

Davies Brothers & Co. .. .. Crown Iron Works, Wolverhampton
Davies, M. H. .. .. .. Grange Rd., Bermondsey, S.E.
Dixon, I. .. .. Windsor Ironworks, Liverpool
Lysaght, John, Limited .. .. Bristol
Macfarlane, Walter, & Co. .. Possil Park, Glasgow
Morewood & Co. .. .. .. Soho, Birmingham
Morton, F., & Co., Limited .. Naylor St. Ironworks, Liverpool

Iron Joists (Rolled).

Messures Bros. & Co. .. .. Southwark Street, S.E.
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.

Iron Merchants.

Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby
Henderson & Glass .. .. Liverpool

Jacks (Lifting).

Dudgeon, Richard .. .. .. 114, Fenchurch Street, E.C.
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Pickering, Jthn. .. .. .. Stockton-on-Tees
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co... .. .. Berkley Street, Birmingham
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Keys and Pins.

Smith, H. Ford .. .. .. Seddon St., Salford, Manchester

Lamps.

Barnett & Foster .. .. .. 25a, Eagle Wharf Road, N.
Wells, A. C., & Co. .. .. Withy Grove, Manchester

Launches and Yachts.

Burnet, L., & Co. .. .. .. Govan, Glasgow
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Cochran & Co. .. .. .. Birkenhead
Cran, J., & Co. .. .. .. Albert Engine Works, Leith
Des Vignes, G. F. G .. .. Chertsey
Edwards & Symes .. .. .. Wharf Rd., Cubitt Town, E.
Forrestt & Son .. .. .. Limehouse, E.
Hanna, Donald & Wilson .. .. Paisley, N.B.
Hayes, Ed. .. .. Stony Stratford
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Miller, Tupp & Rouse .. .. Middle Mall, Hammersmith
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Ross & Duncan .. .. .. Whitefield Works, Glasgow
Thornycroft, J. I., & Co. .. .. Chiswick, W.
Vosper & Co. .. .. .. Broad Street, Portsmouth
Yarrow & Co. .. .. .. Poplar, E.

Laundry Machines.

Manlove, Alliott, Fryer & Co. .. Nottingham

Lead Refiners and Merchants.

Holman, Rogers, Mitchell & Co. St. Helen's, Lancashire

Leather Machinery.

Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Stothert & Pitt, Limited .. Bath

Lifts.

Coles, H. J. .. .. 89, Sumner Street, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Gibbins, R. C., & Co. .. .. Berkley St., Birmingham
Hanson, W. .. .. Bradford
Hunter & English .. .. .. Bow, E.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Waygood, R., & Co. .. .. Falmouth Road, S.E.

Linoleum Machinery.—*(See Floor Cloth Machinery.)*

Lithographers.

Kell, Thos., & Son.. .. .. 40, King Street, Covent Garden, W.C.

Locomotive Details.

Storey, I., & Sons .. .. .. Knott Mill, Manchester

Locomotive Engines.—*(See Engines, Locomotive.)*

Lubricants and Oils.

Bell, J. .. .. Asbestos Works, Southwark, S.E.
Bliven's American Lubricating Cream .. .. 23, Brunswick St., Liverpool
Bradford, J., & Sons .. .. Liverpool
Crane, F. Moir, & Co., ... Bank Street, Manchester
Engelbert & Co. .. .. .. 70 & 71, Bishopsgate St., E.C.
Fleming, A. B., & Co., Limited 15, Whitefriars Street, E.C.
Price's Patent Candle Co., Ltd. Battersea, S.W.
Ragosine & Co. .. .. .. 7, Idol Lane, E.C.
Wilson, J. Veitch, & Co. .. Glasgow

Lubricators.

Blake, J. .. .. Accrington, Lancashire
Dewrance & Co. .. .. .. 198, Great Dover Street, S.E.
Foster, Edward, & Son .. Halifax
Körting Brothers .. .. .. 17, Lancaster Avenue, Manchester
Nettlefolds, Limited .. .. Birmingham
Trier Brothers .. .. .. 19, Gt. George St., Westminster
Whitehouse & Co. .. .. .. Tipton Hall Chain Works, Staffordshire

Machine Tools.

Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Archdale, Jas., & Co. .. .. Ledsam Street, Birmingham
Askham Bros. & Wilson, Ltd. .. Sheffield
Asquith, W. .. .. Highroad Well Works, Halifax
Barlow, H. B., & Co. .. .. Cornbrook Works, Manchester
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby Bridge
Berry, H. .. .. Croydon Works, Hunslet, Leeds
Booth, Geo., & Co... .. .. Halifax
Butterfield, F. & J., & Co. .. Keighley, Yorkshire
Cameron, John .. .. .. Oldfield Road Ironworks, Salford
Churchill, C., & Co. .. .. Cross Street, Finsbury, E.C.
Cowley, John, & Son .. .. Hyde, near Manchester
Craig & Donald .. .. .. Johnstone, near Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Limited .. Manchester
Dron & Lawson .. .. .. Cranston Hill Tool Works, Glasgow
Earnshaw, A., & Co. .. .. Crown Works, Booth Town, Halifax
Fielding & Platt .. .. .. Gloucester
Galloway, W. & J., & Sons .. Manchester
Harpers Limited .. .. .. Albion Ironworks, Aberdeen
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Kendall & Gent .. .. .. Victoria Works, Manchester
Lang, J., & Sons .. .. .. Johnstone, N.B.
Lee & Hunt .. .. Arkwright Works, Manchester
London Bros. .. .. Bothwell Street, Glasgow
Machinery & Hardware Co., Ltd. 147, Queen Victoria Street, E.C.
McArthur, A., & Son .. .. Johnston, N.B.
Muir, Wm., & Co... .. .. Sherbourne Street, Manchester
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Pitt Bros. .. .. Yorkshire Machine Tool Works, Liversedge
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Scott Bros. .. .. West Mount Ironworks, Halifax
Scriven & Co. .. .. .. Leeds Old Foundry, Marsh Lane, Leeds
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shepherd, Hill & Co. .. .. Leeds
Shirlaw, A., & Co... .. .. Suffolk Works, Birmingham
Smith & Coventry... .. .. Ordsall Lane, Salford, Manchester
Smith & Willshaw... .. .. Halifax
Tangyes Machine Tool Co., Ltd. Soho, Birmingham
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Widdowson, J. H... .. .. Ordsall Lane, Salford
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Maize Dressing Machinery.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Mathematical Instruments, Makers.

Archbutt, J. & W. E. .. .. Westminster Bridge Road, Lambeth, S.W.
Negretti & Zambra .. .. Holborn Viaduct, E.C.
Stanley, W. F. .. .. .. Great Turnstile, Holborn, W.C.

Mattresses (Spring).

Morris, John .. .. .. Salford, Manchester

Metals (Phosphor, Alloys, &c.).

Billington & Newton .. .. Longport, Staffordshire
Cockshott & Jowett .. .. 145, Thornton Road, Bradford
Dick, Alex. .. .. 110, Cannon Street, E.C.
Evans, James, & Co. .. .. Gaythorn, Manchester
Hughes, J. & J. .. .. .. Woodcock Street, Birmingham
Phosphor Bronze Co., Limited.. Sumner Street, S.E.

Meters.

Manchester Water Meter Co., Limited .. .. Ardwick, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Mill Gearing, Shafting, &c.

Askham Bros. & Wilson, Ltd. .. Sheffield
Bessemer, Henry, & Co., Limited Sheffield
Bodley, Bros., & Co. .. .. Exeter
Brown, Bayley, Dixon & Co. .. Sheffield
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Co. .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Salford
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, John, & Sons .. .. Bolton
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Spring Hill, Birmingham
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Whitmore & Binyon .. .. .. 28, Mark Lane, E.C.
Yates & Co. .. .. Sheaf Works, Hunslet Road, Leeds

Mill Machinery (Flour, Corn, and Rice).

Clayton & Shuttleworth.. .. Lincoln
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Herbert & Law .. .. .. Edinburgh
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
Marshall, Sons & Co., Limited .. Gainsborough
McCulloch, T., & Son .. .. Kilmarnock
Norman, J., & Co... .. .. Keppochill Engine Works, Glasgow
Ransomes, Head, & Jefferies .. Ipswich
Ruston, Proctor, & Co. .. .. Lincoln
Turner, E. R. & F... .. .. Ipswich
Whitmore & Binyon .. .. .. 28, Mark Lane, E.C.

Mills (Paint, Oil, Mortar, &c.).

Butters Brothers .. .. .. Lambhill Street, Glasgow
Follows & Bate, Limited (Paint) Manchester
Rose, Downs, & Thompson .. Hull
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Spencer & Co. .. .. .. Melksham, Wilts
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Mining Machinery.

Askham Bros. & Wilson, Ltd. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Daglish, R. & Co. .. .. .. St. Helens, Lanc.
Hathorn, Davey & Co. .. .. Leeds
Jordan, T. B., Son & Commans.. 52, Gracechurch Street, E.C.
McCulloch, T., & Sons .. .. Kilmarnock
Robey & Co... .. .. .. Lincoln
Ruston, Proctor & Co. .. .. Lincoln
Schram, Richard, & Co. .. .. 9, Northumberland St., W.C.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Walker, Bros. .. .. .. Wigan

Moulding Machines.

Whittaker, Wm., & Co... .. Oldham

Non-Conducting Compositions.

Anderson, D., & Son, Limited .. Lagan Felt Works, Belfast
Bell, J. .. .. Asbestos Works, Southwark, S.E.
Haacke, A., & Co. .. .. .. 21, Lime Street, E.C.
Keenan, M. .. .. Armagh Works, Tredegar Wks., N. Bow, E.
Leroy, F., & Co. .. .. .. Gray Street, Commercial Rd., E.

Nuts (Finished).

Mercer, Ed. .. .. Hollinwood, Manchester

Oils.—*(See Lubricants.)*

Oil Cans.

Kaye, Jos., & Co. .. .. .. Bank Works, Kirkstall, Leeds.

Oil Distilling Plant.

Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Oil Mill Machinery.

Piggott, Thos., & Co. .. .. Birmingham
Rose, Downs & Thompson .. Old Foundry, Hull
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Packing (Engine).

Beldam Packing & Rubber Co... 77, Gracechurch Street, E.C.
Bell, John .. .. Asbestos Works, Southwark
Binney & Son .. .. .. Catherine St., City Road, E.C.
Briggs Bros... .. .. .. Maltby Place, Hunslet, Leeds
Lindsay, R. B., & Co. .. .. Plantation Quay (West) Glasgow
Mead, F. M., & Co. .. .. 323b, Kennington Road, S.E.
Tuck & Co., Limited .. .. 116, Cannon Street, E.C.
United Asbestos Co., Ltd., The.. 161, Queen Victoria Street, E.C.

Paints.

Ragosine & Co. .. .. .. 7, Idol Lane, Great Tower St.
United Asbestos Co., Limited .. 161, Queen Victoria Street, E.C.

Paper.

Hodgkinson & Co... .. ..

Paper Making Machinery.

Donkin, B., & Co... .. .. Bermondsey, S.E.
Douglas & Grant .. .. .. Kirkcaldy, N.B.

Patent Agents.

Alexander, E. P. .. .. .. 36, Southampton Buildings, W.C.
Allison, Brothers .. .. .. 52, Chancery Lane, W.C.
Brewer & Jensen .. .. .. 33, Chancery Lane, W.C.
Brookes, Wm. .. .. .. 55 & 56, Chancery Lane, W.C.
Craven, T. E., & Son .. .. 24, Victoria Chambers, South Parade, Leeds
Harris & Mills .. .. .. 23, Southampton Buildings, W.C.
Horn & Son .. .. 172, Strand, W.C.
Inventors' Patent Right Association, Limited .. .. .. 21, Cockspur Street, S.W.
Phillips & Leigh .. .. .. 22, Southampton Buildings, Chancery Lane, W.C.
Redfern, G. F. .. .. .. 4, South Street, Finsbury, E.C.
Thompson & Boult .. .. .. 6, Lord Street, Liverpool
Thomson, W. R. M., & Co. .. 96, Buchanan Street, Glasgow
Vaughan & Son .. .. .. 57, Chancery Lane, W.C.
Wise, W. Lloyd .. .. .. 46, Lincoln's Inn Fields, W.C.

Patterns.

Ormerod, Grierson & Co... .. Manchester

Permanent Way.

Askham Bros. & Wilson, Ltd. .. Sheffield
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Isca Foundry & Engineering Co. Newport, Monmouthshire
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Thomson & Browning .. .. 3, Victoria Street, E.C.

Pig Iron Breakers.

Evans, J., & Co. .. .. .. Trumpet Street, Manchester

Pile Drivers.

Gibbins, R. C., & Co. .. .. Berkley Street, Birmingham

Piles.

Goodwin, James, & Co. .. .. Ardrossan, N.B.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Pipe Founders.

Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Isca Foundry & Engineering Co. Newport, Monmouthshire

Pipe (Drain) Making Machinery.

Clayton, Howlett & Venables .. Harrow Road, W.

Pipes (Sanitary).

Doulton & Co. .. .. .. Lambeth, S.E.
Farnley Iron Co., Limited .. Farnley, near Leeds
Glenboig Union Fire Clay Co., The Glasgow

Pistons and Piston Rings.

Atkins & Co. .. .. .. Special Tool Works, Stanley Street, Sheffield
Bates, Timothy, & Co. .. .. Sowerby Bridge
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Lockwood & Carlisle .. .. Eagle Foundry, Park, Sheffield

Plates (Iron and Steel).

Beardmore, I. & W. .. .. Glasgow
Brown, Bayley, Dixon & Co. .. Sheffield
Jessop, Wm., & Sons, Limited Sheffield
Landore Siemens-Steel Co., The.. Landore, South Wales
Leeds Forge Co., Limited .. Leeds
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.
Steel Co. of Scotland, Limited.. Glasgow
West Cumberland Iron & Steel Co., Limited .. .. .. Workington

Portable Engines.—*(See Engines, Portable.)*

Portable Railways.—*(See Railways, Portable.)*

Pottery and Encaustic Tile Machinery.

Bodley Brothers & Co. .. .. Exeter
Boulton, W. .. .. Burslem, Staffordshire

Presses (Hydraulic).—*(See Hydraulic Presses.)*

Printing Machinery for Textile Fabrics.

Farmer, Jas., & Sons .. .. Salford

Propellers.

Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Ross & Duncan .. .. .. Glasgow
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield

Pulley Blocks.

Crowley, John, & Co. .. .. Sheffield
Pickering, Jthn. .. .. .. Stockton-on-Tees
Priest, Rowland .. .. .. Cradley Heath, Staffs.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Tangyes Limited .. .. .. Birmingham
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Pulleys (Cast Iron).

Bagshaw, J. & Sons .. .. Batley, Yorkshire
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Iron Works, Oldham
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Jackson, P. R., & Co. .. .. Salford Rolling Mill, Manchester
Ormerod, Grierson & Co... .. Hulme, Manchester
Reading Ironworks Co. .. .. Reading
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J. & Co. .. .. .. Hunslet, near Leeds

Pulleys (Wrought Iron).

Bagshaw, J., & Sons .. .. Batley
Crossley, G... .. .. .. Albion Machine Works, Cleckheaton
Hall, J. & E. .. .. .. Dartford Ironworks, Kent
Hudswell, Clark & Co. .. .. Railway Foundry, Leeds
Mackie, J. & J. & Co .. .. Reading
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Pickering, Jthn. .. .. .. Stockton-on-Tees
Reading Ironworks Co., Ltd. .. Reading

Pumps and Pumping Machinery.

Allen, W. H. & Co. .. .. York Street, Lambeth, S.E.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Blundell, G. T., & Co. .. .. Limehouse, London
Cameron, John .. .. .. Old Field Rd. Ironworks, Salford
Carrick & Wardle .. .. .. Gateshead
Chaplin, A., & Co... .. .. Glasgow
Clay Cross Co. .. .. .. Clay Cross, near Chesterfield
Coalbrookdale Co., Limited .. Coalbrookdale, Shropshire
Cochrane, Jno. .. .. .. Burrhead
Coles, H. J. .. .. Sumner Street, S.E.
Craig, A. F., & Co. .. .. Paisley, N.B.
Daglish, R., & Co... .. .. St. Helen's, Lancashire
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, Jos., & Sons .. .. Wolverhampton
Fairburn & Hall .. .. .. 63, Royal Exchange, Manchester
Fielding & Platt .. .. .. Gloucester
Grange Iron Co., Limited .. Durham
Hanna, Donald & Wilson .. Paisley
Hanson, Wm. .. .. Bradford
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
Hett, C. L. .. .. Ancholme Foundry, Brigg
Hunter & English .. .. .. Bow, E.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.
Loudon, Bros. .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
Mather & Platt .. .. .. Manchester
McCulloch, T., & Sons .. .. Kilmarnock
Moreland, Richard, & Son .. 3, Old Street, E.C.
Neill, W., & Son .. .. .. St. Helen's Junction, Lancashire
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Pearn, Frank, & Co. .. .. Manchester
Piggott, Thos., & Co. .. .. Birmingham
Pulsometer Engineering Co., Ltd. Nine Elms, S.W.
Rammottom, Jno. .. .. .. Saynor Road, Leeds
Ruston, Proctor, & Co. .. .. Sheaf Ironworks, Lincoln
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shanks, Alexander, & Son .. Dens Ironworks, Arbroath
Silvester, F. & Co. .. .. .. Castle Hill Works, Newcastle, Staff.
Simpson & Co. .. .. Pimlico, London
Stannah, J. .. .. 20, Southwark Bridge Rd., S.E
Stothert & Pitt, Limited .. .. Bath
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Taylor & Challen .. .. .. Birmingham
Thwaites Brothers .. .. .. Vulcan Ironworks, Bradford
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.
Tyler, H., & Co. .. .. .. 84, Upper Whitecross St., E.C.
Westinghouse Brake Co., Ltd. .. York Road, King's Cross, N.
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.
Woods, Hamilton & Co. .. .. Salford, Manchester

Pumps (Centrifugal).

Allen, W. H., & Co. .. .. York St. Works, Lambeth, S.E.
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Evans, J., & Sons .. .. .. Wolverhampton
Hathorn, Davey & Co. .. .. Leeds
Hett, C. L. .. .. Brigg
Lowca Engineering Co., Ltd., The Whitehaven
New, D., & Co. .. .. .. 15, Devonshire Chambers,
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Ruston, Proctor & Co. .. .. Lincoln
Simpson & Co. .. .. Pimlico, London
Tangyes Limited .. .. .. Cornwall Works, Birmingham

Pumps (Donkey).

Cameron, John .. .. .. Oldfield Rd. Ironworks, Salford
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Coalbrookdale Co., Limited .. Coalbrookdale, Staffordshire
Cochrane, John .. .. .. Burrhead, N.B.
Coles, H. J. .. .. 89, Sumner St., Southwark, S.E.
Hanson, W... .. .. .. Quebec Works, Bradford
Hathorn, Davey & Co. .. .. Leeds
Hatton, J. .. .. Coventry
Loudon Brothers .. .. .. Bothwell Street, Glasgow
Lowca Engineering Co., Ltd., The Whitehaven
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Roger, R., & Co. .. .. .. Stockton-on-Tees
Stannah, J. .. .. 29, Southwark Bridge Rd., S.E.
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Wilson, Alex., & Co. .. .. Vauxhall Ironworks, Wandsworth Road, S.W.
Wilson, John H., & Co. .. .. Sandhills, Liverpool

Punching and Shearing Machines.

Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Beckwith, E., & Co. .. .. Sunderland
Berry, F., & Sons .. .. .. Calderdale Ironworks, Sowerby Bridge
Fielding & Platt .. .. .. Gloucester
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Railway Agents.

Oldham Brothers .. .. .. 110, Cannon Street, E.C.

Railway and Contractors' Plant.

Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, John, & Son .. .. 40e, St. Mary's Gate, Derby
Brown, Bayley, Dixon & Co. .. Sheffield
Chaplin, Alex., & Co. .. .. Cranston Hill Engine Works, Glasgow
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Goodwin, Jas., & Co. .. .. Ardrossan, N.B.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Ransomes & Rapier .. .. .. 5, Westminster Chambers, S.W.
Thomson & Browning .. .. 3, Victoria St., Westminster
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Railways (Portable).

Bagnall, W. G. .. .. .. Stafford
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Fowler, J., & Co. .. .. .. Leeds
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co... .. .. 20, Bucklersbury, E.C.
Wood, C. .. .. Tees Ironworks, Middlesbro'-on-Tees

Rail Benders.

Bodmer & Jones .. .. .. Dashwood House, London, E.C.

Rail Lifters.

De Bergue & Co., Limited . Manchester

Rails (Steel or Iron).

Askham Bros. & Wilson, Ltd. .. Sheffield
Beatson, J., & Son... .. .. 40e, St. Mary's Gate, Derby
Brown, Bailey, Dixon, & Co., Ltd. Sheffield
Darlington Steel & Iron Co., Ltd. 3, Victoria St., Westminster, S.W.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Shelton Bar Iron Co. .. .. Stoke-on-Trent, and Cannon Street, London, E.C.
Steel Co. of Scotland, Limited .. Glasgow
West Cumberland Iron & Steel Co. Workington, Cumberland

Reducing Valves.
Hanson, Wm. .. .. .. Quebec Works, Bradford

Refrigerating Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Dunnikier Foundry, Kirkcaldy, N.B.
Hall, J. & E. .. .. . Dartford Ironworks, Kent

Rice Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Douglas & Grant .. .. .. Kirkcaldy, N.B.
Hunter & English .. .. .. Bow, E.
Landale, James .. .. .. Kirkcaldy, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Sands, Harold . .. .. Popham Street, Nottingham

Rivets.—*(See Bolts, Rivets, &c.)*

Rivetting Machines.
Anderson & Gallwey .. .. Cremorne Works, Lot's Road, Chelsea, S.W.
Berry, Henry .. .. .. Croydon Works, Hunslet, Leeds
De Bergue & Co., Limited .. Manchester
Drysdale & Co. .. .. .. Bon Accord Engine Works, Glasgow
Fielding & Platt .. .. .. Gloucester
Gilmer, W. F., & Co. .. .. Quayside, Newcastle-on-Tyne
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Higginson & Co. .. .. .. Mersey Street, Liverpool
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Tweddell, R. H. .. .. .. 14, Delahay Street, S.W.

Rock Drills.
Glover & Hobson .. .. .. St. James's Road, S.E.
Hartley & Arnoux Brothers .. Stoke-on-Trent
Jordan, T. B., Son, & Commans 52, Gracechurch St., E.C.
Schram, Richard, & Co. .. .. 9, Northumberland Street, W.C.

Rolling Mills.—*(See Iron & Steel Works, Plant for.)*

Rolls (Chilled and Grain).
Perry, Thomas, & Son .. .. Highfield Works, Bilston

Roofs (Iron, Steel and Zinc).
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Davies, Bros., & Co. .. .. Crown Ironworks, Wolverhampton
Davies, M. H. .. .. .. Grange Road, Bermondsey, S.E.
De Bergue, & Co., Limited .. Manchester
Dixon, Isaac .. .. .. Windsor Ironworks, Liverpool
Goodwin, Jas., & Co. .. .. Motherwell, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hill & Smith .. .. .. Tipton, Staffordshire
Ianson, C., Son & Co. .. .. Darlington
Isca Foundry & Engineering Co. Newport, Monmouthshire
Lowca Engineering Co., Ltd., The Whitehaven
Lysaght, J., Limited .. .. St. Vincent Works, Bristol
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Woodford Ironworks, Soho, Birmingham
Morton, Francis & Co. .. .. Naylor St. Ironworks, Liverpool
Walker Brothers .. .. .. Wigan

Rope Driving Gear.
Goodfellow & Matthews .. .. Hyde, near Manchester
McCulloch, T., & Sons .. .. Kilmarnock

Ropes (Driving).
Hanson, Scott & Co. .. .. Stockport

Ropes (Wire.)—*(See Wire Ropes.)*

Rustless Iron.
The Bower-Barff Rustless Iron Co., Limited .. .. .. 23, Queen Victoria Street, E.C.

Sanitary Appliances.
Doulton & Co. .. .. . Lambeth, S.E.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Shafting.
Bagshaw, J., & Sons .. .. Batley, near Leeds
Bessemer, Henry, & Co., Limited Sheffield
Brown, Bayley, Dixon & Co. .. Sheffield
Goodfellow & Matthews .. .. Hyde, near Manchester
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hick, Hargreaves & Co. .. .. Soho Ironworks, Bolton
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Kirkstall Forge Co. .. .. Leeds
McCulloch, T., & Sons .. .. Kilmarnock
New, D., & Co. .. .. .. 15, Devonshire Chambers, E.C.
Taylor & Challen .. .. .. Derwent Foundry, Birmingham
Yates, J., & Co. .. .. .. Sheaf Works, Hunslet Rd., Leeds

Ship Builders.
Abercorn Shipbuilding Co. .. Abbey Works, Paisley, N.B.
Alley & Maclellan .. .. .. Glasgow
Ross & Duncan .. .. .. Glasgow
Simons, W., & Co. .. .. .. Renfrew
Yarrow & Co. .. .. .. Isle of Dogs, E.

Slide Valves.
Thom, J. .. .. 8, Storey Sq., Barrow-in-Furness

Smiths' Fires.
Thwaites Brothers .. .. Vulcan Ironworks, Bradford

Soda Water Machinery.
Barnett & Foster .. .. .. 25a, Eagle Wharf Road, N.

Speed Indicators.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Taite & Carlton .. .. .. 63, Queen Victoria Street, E.C.

Springs.
Ibbotson Brothers & Co., Limited Sheffield
Osborn, Samuel, & Co. .. .. Sheffield
Salter, George, & Co. .. .. West Bromwich
Spencer, J., & Sons .. .. Newburn Steel Works, Newcastle-on-Tyne
Sterne, L., & Co., Limited .. Crown Ironworks, Glasgow
Turton, Thos. & Sons .. .. Sheaf Works, Sheffield

Steam Hammers.
Booth, Geo., & Co... .. .. Halifax
Cochrane, John .. .. .. Barrhead
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith, N.B.
Davy Brothers, Limited.. .. Sheffield
Dudgeon, Richard.. .. .. 114, Fenchurch Street, E.C.
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Massey, B. & S. .. .. .. Manchester
Musgrave, J., & Sons .. .. Bolton
Pollock, Macnab, & Highgate .. Shettlestone, Glasgow
Rushworth & Co. .. .. .. Sowerby Bridge, Yorkshire
Savile Street Foundry and Engineering Co., Limited.. .. Sheffield
Thwaites Brothers.. .. .. Vulcan Ironworks, Bradford
Walker Brothers .. .. .. Pagefield Ironworks, Wigan
Walker, T., & Co. .. .. .. Leeds

Steam Traps.
Blake, J. .. .. Accrington, Lancashire
Hanson, W. .. .. Quebec Works, Bradford
Lancaster & Tonge.. .. .. Pendleton, Manchester
Vaughan & Son .. .. .. West Gorton, Manchester

Steel Makers.
Askham Bros. & Wilson, Ltd. .. Sheffield
Beardmore, I. & W. .. .. Parkhead Ironworks, Glasgow
Bessemer, H., & Co., Limited .. Sheffield
Bolton Iron & Steel Co. .. .. Bolton
Brown, Bayley, Dixon & Co. .. Sheffield
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Howell & Co. .. .. Sheffield
Ibbotson Bros., & Co., Limited.. Sheffield
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Jessop, W., & Sons, Limited .. Sheffield
Landore Siemens-Steel Co., Ltd. Landorp, South Wales
Leeds Forge Co., Limited .. Leeds
Marsden, Francis .. .. .. Slavonia Works, Sheffield
Osborn, S., & Co. .. .. .. Sheffield
Stanners Close's Steel Co. .. .. Wolsingham, near Darlington
Steel Co. of Scotland, The .. 150, Hope Street, Glasgow
Tangyes Limited .. .. .. Cornwall Works, Birmingham
Turton, T., & Sons .. .. Sheaf Works, Sheffield
West Cumberland Iron and Steel Co. .. .. Workington, Cumberland

Steel and Iron Works (Plant for).—*(See Iron and Steel Works.)*

Steering Gear.
Donkin & Nichol .. .. .. Newcastle-on-Tyne
Grange Iron Co., Limited .. Durham
Lynn, John, & Co. .. .. Sunderland
Paul, M., & Co. .. .. .. Levenford Works, Dumbarton
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Wilson, J. H., & Co. .. .. Sandhills, Liverpool

Stokers (Mechanical).
Hodgkinson & Co., Limited .. Manchester
Proctor, J. .. .. Burnley, Lancashire

Stone Breakers.
Baxter, W. H., & Co. .. .. Albion Street, Leeds
Brinjes & Goodwin .. .. Whitechapel, E.
Goodwin, Jas., & Co. .. .. Motherwell, near Glasgow
Savile Street Foundry & Engineering Co., Limited .. Sheffield

Stone Dressing Machinery.
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Stone Merchants.
Akeroyd, James, & Sons.. .. Harehills, near Leeds
Endolithic Co., The .. .. 114A, Queen Victoria St., E.C.

Sugar Machinery.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Clayton, Howlett & Venables .. Harrow Road, W.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davis & Primrose .. .. .. Etna Ironworks, Bangor Road, Leith
Harvey, Robert, & Co. .. .. Park Grove Ironworks, Glasgow
Landale, James .. .. .. Kirkcaldy, N.B.
Manlove, Alliott, Fryer & Co. .. Nottingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Piggott, T., & Co. .. .. .. Springhill, Birmingham
Sands, Harold .. .. .. Popham Street, Nottingham

Surface Plates.
Okes, J. C. R. .. .. .. 39, Queen Victoria Street, E.C.
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester

Tanks.
Bellamy, John .. .. .. Byng Street, Millwall, E.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Davies Bros. & Co. .. .. Crown Ironworks, Wolverhampton
Hanna, Donald & Wilson .. Paisley, N.B.
McCulloch, T., & Sons .. .. Kilmarnock
Morewood & Co. .. .. .. Soho, Birmingham
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow

Tanners and Curriers.
Hepburn & Gale, Limited .. Long Lane, Southwark, S.E.
McIntosh, Peter, & Sons .. 129a, Stockwell St., Glasgow.
Norris, S. E., & Co. .. .. High Street, Shadwell, E.
Webb & Son.. .. .. .. Stowmarket
White, John, & Sons .. .. Bingley, Yorkshire
Wilcock, Mark .. .. .. Sowerby Bridge

Tea Dressing Machinery.
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Marshall, Sons & Co., Limited.. Gainsborough

Telegraphs (Engine and Steering).
Chadburn & Son .. .. .. Lord Street, Liverpool

Telegraph Wire and Cables.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester

Timber Merchants.
Keen, J. .. .. 264, Waterloo Bridge Road, S.E.

Time Checking Machinery.
Llewellin's Patent Machine Co. Bristol

Tools (Hand and Small).
Chatwin, Thos. .. .. .. Gt. Tindal St., Birmingham
Churchill, C., & Co. .. .. 21, Cross Street, Finsbury, E.C.
Cowley, John, & Son .. .. Hyde, near Manchester
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Heap, Joshua, & Co., Limited .. Ashton-under-Lyne
Ibbotson Brothers & Co., Limited Sheffield
Jowitt, Thos., & Sons .. .. Sheffield
Nettlefolds, Limited .. .. Birmingham
Richards, George, & Co. .. .. 12, City Road, Manchester
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Shirlaw, A., & Co... .. .. Suffolk Works, Birmingham
Smith & Coventry.. .. .. Ordsall Lane, Salford, Manchester
Widdowson, J. H... .. .. Ordsall Lane, Manchester

Torpedo Boats.
Hanna, Donald & Wilson .. Paisley
Thornycroft, J. I., & Co. .. Chiswick, W.
Yarrow & Co. .. .. .. Isle of Dogs, E.

Tramways and Tramway Plant.
Askham Bros. & Wilson, Ltd. . Sheffield
Carrington, W. T. H. (Wire) .. 9 & 11, Fenchurch Street, E.C.
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Hartley & Arnoux Brothers .. Stoke-on-Trent
Kerr, Stuart & Co. .. .. 20, Bucklersbury, E.C.
Savile Street Foundry and Engineering Co., Limited.. Sheffield

Tube Cleaners.
Boaz, W. .. .. 29, West India Dock Road

Tube Expanders.
Dron & Lawson .. .. .. Cranstonhill Tool Works, Glasgow
Dudgeon, Richd. .. .. .. 114, Fenchurch Street, E.C.
Gibb, James, & Co. .. .. 23, St. Mary Axe, E.C.
Selig, Sonnenthal & Co. .. .. 85, Queen Victoria Street, E.C.
Thomson, Wm. .. .. .. Kinning Park, Glasgow

Tube Making Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Tube Wells.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tubes (Brass).
Birmingham Battery & Metal Co. Birmingham
Muntz's Metal Co., Limited .. Trench Walls, nr. Birmingham

Tubes (Iron and Steel).
Aird, Jas. .. .. Tipton, Staffordshire
Birmingham Battery & Metal Co. Birmingham
Caledonian Tube Co. .. .. Coatbridge, near Glasgow
Credenda Cold-Drawn Seamless Steel Tube Co., The .. .. Ledsam Street, Birmingham
Donald, J., & Son .. .. .. 42, Cadogan Street, Glasgow
Eadie, J., & Sons .. .. .. Clydesdale Tube Works, Ruthergien, near Glasgow
Farmer, Jas., & Sons .. .. Salford
Galloway, W. & J., & Sons .. Manchester
Hildick & Hildick .. .. Tube Works, Walsall
Howell & Co. .. .. .. Brook Steel Works, Sheffield
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Lewis, E., & Sons .. .. .. Wolverhampton
Lloyd & Lloyd .. .. .. Birmingham
Marshall, J., & Sons .. .. Glasgow
McGhee, Jas., & Co. .. .. Coatbridge, N.B.
Russell, Jas., & Sons .. .. Crown Tube Works, Wednesbury
Skidmore, H. P. .. .. .. Netherton, near Dudley
Spencer, John .. .. .. Wednesbury
Spencer, J. E. & S. .. .. 3, Queen Street Place, Cannon Street, E.C.
Stewart, A. & J. .. .. .. Clyde Tube Works, Coatbridge
Weldless Steel Tube Co. .. Icknield Port Rd., Birmingham

Turbines.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Hanna, Donald & Wilson .. Paisley, N.B.
Hett, C. L. .. .. Ancholme Foundry, Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
McKenzie, Thos., & Sons, Ltd... 16, Holborn Viaduct, E.C.
Schram, Richard, & Co... .. 9, Northumberland Street, W.C.
Stothert & Pitt, Limited.. . Bath

Turnstiles.
Isler, C., & Co. .. .. .. 88, Southwark Street, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Tuyeres.
Newlove, R. R., & Co. (Water).. Nottingham

Tyres (Railway).
Bessemer, H., & Co., Limited .. Sheffield
Brown, Bailey, Dixon, & Co. .. Sheffield
Landore Siemens-Steel Co., Ltd. Landore, South Wales
Leeds Forge Co., Limited .. Leeds

Valuers, Engineering.
Kirk, W., Price & Goulty .. 52, Queen Victoria Street, E.C.

Valves (Gas, Water, &c.).
Alley & Maclellen .. .. .. Glasgow
Dewrance, J., & Co., ... 138, Great Dover Street, S.E.
Donkin, B., & Co... .. .. Bermondsey, S.E.
Foster, Edward, & Son .. .. Halifax
Glenfield Co., Limited .. .. Kilmarnock, N.B.
Hanna, Donald & Wilson .. Paisley, N.B.
Hanson, Wm. .. .. .. Quebec Works, Bradford
Hartley & Sugden, Limited .. Halifax
Hunter & English.. .. .. Bow, London, E.
Owens, S., & Co. .. .. .. Whitefriars Street, E.C.
Rhodes, B. .. .. 240, Bow Road, E.
Walker, Bros. .. .. .. Pagefield Ironworks, Wigan
Woods, Hamilton & Co. .. .. Salford, Manchester

Valves, Safety.
Adams, Thos. (Executors of) .. West Gorton, Manchester
Blake, J. .. .. Accrington, Lancashire

Ventilators.
Boyle, R., & Son .. .. .. 64, Holborn Viaduct, E.C.

Vices.
Crampton Brothers .. .. 25, West Bar Green, Sheffield
Macbrair, W. M. .. .. .. Sheaf Island Works, Sheffield

Vulcanite.
Winter, F. .. .. 138, London Wall, E.C.

Wagon (Railway) Builders.
Ashbury Railway Carriage & Iron Co., Limited .. .. .. Openshaw, Manchester
Bagnall, W. C. .. .. .. Stafford
Falcon Engine & Car Works, Ltd. Loughborough
Metropolitan Railway Carriage & Wagon Co., Limited.. .. Saltley Works, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury

Wagons (Tip).
Dick, Kerr & Co. .. .. .. 101, Leadenhall Street, E.C.
Hartley & Arnoux Brothers .. Stoke-on-Trent

Water Closets.
Winn, Charles, & Co. .. .. Granville Street, Birmingham

Water Meters.
Glenfield Co., Limited .. .. Kilmarnock, N.B.
Manchester Water Meter Co., Ltd. Tipping Street, Ardwick, Manchester
Worthington Pumping Engine Co. 114, Queen Victoria Street, E.C.

Water Purifying Apparatus.
Porter, John Henderson.. .. 1 & 2, Tudor Street, E.C.

Water Wheels.
Aitken, McNeil & Co. .. .. Helen Street, Govan, Glasgow
Bodley Brothers & Co. .. .. Exeter
Copeland, J., & Co. .. .. Dobbie's Loan, Glasgow
Hett, C. L. .. .. Brigg
King, H. J. H. .. .. .. Stroud, Gloucestershire
Norman, John, & Co. .. .. Keppochill Engine Works, Glasgow
Stothert & Pitt, Limited.. .. Bath

Weighing Machines.
East Ferry Road Engineering Works Co., Limited .. .. Millwall, E.
Hodgson & Stead .. .. .. Regent Road, Manchester
Ianson, Chas., Son & Co... .. Darlington
Pooley, Henry, & Son .. .. Albion Foundry, Liverpool
Salter, G., & Co. .. .. .. West Bromwich
Scott, Jas., & Son .. .. .. 10, Tibb Lane, Cross Street, Manchester

Well Engineers.
Isler, C., & Co. .. .. .. 88, Southwark St., London, S.E.
Le Grand & Sutcliff .. .. 100, Bunhill Row, E.C.

Wheels (Geared).
Bodley Brothers & Co. .. .. Exeter
Buckley & Taylor .. .. .. Castle Ironworks, Oldham
Forsyth, Miller & Co. .. .. Mile End, Glasgow
Goodfellow & Matthews .. .. Hyde, near Manchester
Hadfield's Steel Foundry Co. .. Attercliffe, Sheffield
Harper & Co. .. .. .. Albion Ironworks, Aberdeen
Hawthorn, R. & W. .. .. Newcastle-on-Tyne
Hind, H., & Son .. .. .. Nottingham
Jackson, P. R., & Co. .. .. Salford Rolling Mills, Manchester
Manlove, Alliott, Fryer, & Co... Nottingham
McCulloch, T., & Sons .. .. Kilmarnock
Musgrave, J., & Sons, Limited.. Bolton
Ormerod, Grierson & Co... .. Hulme, Manchester
Perry, Thomas, & Son .. .. Highfields Works, Bilston
Rowlandson, W. .. .. .. 132, Boundary St., Liverpool
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.
Staffordshire Wheel & Axle Co. Springhill, Birmingham

Wheels (Railway).
Ashbury Railway Carriage and Iron Co., Limited .. .. Openshaw, Manchester
Metropolitan Railway Carriage and Wagon Co. .. .. .. Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Limited .. .. Abbey Works, Shrewsbury
Staffordshire Wheel & Axle Co., Limited .. .. Springhill, Birmingham

Wheels (Road) and Axles.
Smith, Parfrey & Hitchings .. Buckingham Palace Rd., S.W.

Whistles (Signal).
Cran, J., & Co. .. .. .. Leith

Winches, Steam.—*(See Cranes).*

Wire and Wire Rope Makers.
Birmingham Battery & Metal Co. Birmingham
Bullivant & Co. .. .. .. 72, Mark Lane, London, E.C.
Cradock, Geo., & Co. .. .. Wakefield
Dennis, W. F., & Co. .. .. 101, Leadenhall Street, E.C.
Glover, W. T., & Co. .. .. 25, Booth Street, Manchester
Lane, Howard, & Co. .. .. 115 & 116, Palmerston Buildings, London, E.C.
Warrington Wire Rope Co. .. 13, Goree Piazzas, Liverpool

Wire Making Machinery.
Crossley, Geo. .. .. .. Cleckheaton, Yorkshire
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Working Machinery.
Farmer, Jas., & Sons .. .. Salford, Manchester

Wire Tramways.
Carrington, W. T. H. .. .. 9 & 11, Fenchurch Avenue, E.C.

Wood Working Machine Makers.
Barr, James.. .. .. .. Kilmarnock
Blake, J. .. .. Accrington, Lancashire
Carrick & Ritchie .. .. .. Waverley Engineering Works, Edinburgh
Hindley, E. S. .. .. .. Bourton, Dorset
Marshall, Sons, & Co., Limited.. Gainsborough
M'Dowall, John, & Sons .. .. Johnstone, near Glasgow
Ransome, A., & Co. .. .. Stanley Works, Chelsea
Richards, G., & Co. .. .. Atlantic Works, Broadheath, near Manchester
Sands, Harold .. .. .. Popham Street, Nottingham
Worssam, Samuel, & Co... .. King's Road, Chelsea, S.W.